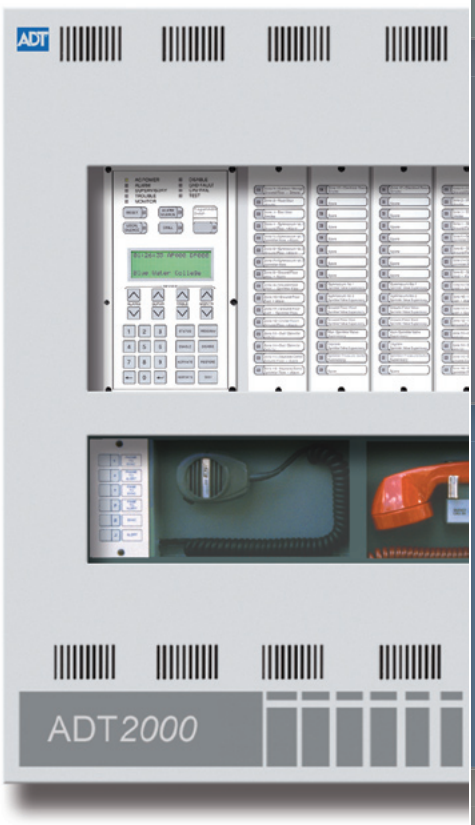
Submittal Guide

ADT2000 Life Safety System

Networkable control with voice audio for medium sized applications



tyco / Fire & Security

Project: _____

Contact: _____

Date: _____

Thankyou for giving us the opportunity to provide this submittal for an ADT2000 Life Safety System. ADT2000 combines intelligent detection with technologically advanced networking and audio capabilities. Together these innovations offer unsurpassed stability, reliability, and flexibility.

This guide provides a summary of these innovations and includes a comprehensive presentation of related system components and devices. Products we are submitting for your consideration are indicated by a checkmark in the margins of the pages that follow.

More detailed information can be found in individual data sheets dedicated to each product. All these sheets, along with guide specifications and other useful product information, are available electronically on our LifeLines CD-ROM. This exhaustive collection of life safety related literature is fully searchable and includes a utility for printing multiple data sheets.

Thank you for giving us the opportunity to provide this submittal. Please do not hesitate to contact us should you require further information.

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Networkable control with voice audio for medium sized applications

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Wiring diagrams provided herein are for information and reference only and are Consult the appropriate installation documents for wiring and configuration details.

This guidebook is for information only and is not intended as a substitute for verbatim legislated requirements. For authoritative specifications regarding the application of life safety, security, and access control systems, consult current editions of applicable codes and standards. For authoritative interpretation of those codes and standards, consult your local authority having jurisdiction.

While every effort has been made to ensure the accuracy and completeness of this guidebook, the authors and publishers assume no responsibility for errors, inaccuracies, omissions, or any inconsistencies herein.

Also from ADT:

Security and Access Control Handbook
A practical guide to application and system design

Handbook of Visual Notification Appliances for Fire Alarm Applications
A practical guide to regulatory compliance

Glossary of Fire Alarm and Security Terminology
A desk reference for life safety and security professionals

Remote Booster Power Supply Application Guide
A summary of typical wiring and configuration for everyday and advanced applications

Installer's Wire Guide
A concise pocket reference to wire and cable requirements for ADT products and systems

QuickStart Submittal Guide
Intelligent/conventional life safety for small to mid-sized applications

ADT3000 Submittal Guide
Intelligent life safety and security control for large and medium sized applications

Cost-effective technology with audio and network

MEA

A lot can be said about ADT2000, but when it comes to performance, price, installation ease and flexibility, this remarkable life safety system speaks for itself.

Until ADT2000, only large and costly installations could deliver the features and the power built into each one of these incredibly flexible systems. Now, with dual channel audio and network capacity for up to 960 intelligent detectors and almost an equal number of modules, ADT2000 has the muscle to handle 90 per cent of all life safety applications — and the flexibility to make it a perfect match for any mid-range retrofit.

And when it comes to connected devices, nothing beats ADT2000. In fact, the Signature Series line of intelligent analog detectors was singled out by Underwriters Laboratories as the first such devices on the market that do not require a calibration sensitivity test in order to comply with NFPA72.

Quality and reliability are built into every ADT2000 component, from the simplest control switch to the system's main processor. And that's not just a corporate mandate: it's a proven fact supported by ADT's commitment to ISO 9000 international quality standards. ADT2000 is certified under ISO, not only for manufacturing, but for design, training, customer service, and technical support as well. This ensures that your ADT2000 system will provide extremely reliable service the day it's brought on-line and well into the future.

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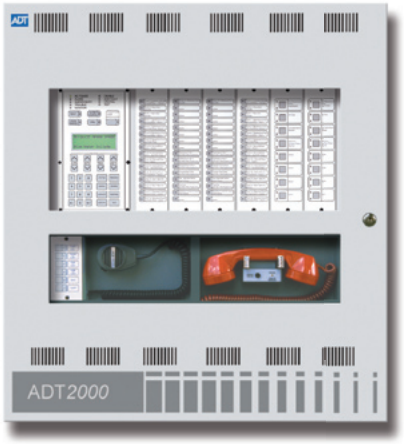
ADT2000 Analog Control

ADT2000 is a modular system with expansion capacity broad enough to meet the demands of over 90 per cent of new and retrofit building applications. Available with integrated dual-channel audio and peer-to-peer networking, ADT2000 keeps pace with the changing requirements of virtually any mid-range application.

ADT2000 provides the benefit of starting small and expanding as system requirements change. Standalone capacity provides 192 intelligent detectors or 600 conventional detectors, 188 intelligent I/O modules or any mix of 192 relay, isolator or sounder bases.



Networking extends ADT2000's capacity to 960 intelligent detectors, 3000 conventional detectors, 940 intelligent I/O modules and any mix of 960 relay, isolator or sounder bases. When networked, ADT2000 will drive up to 30 remote annunciators per panel — each with a capacity of 96 input/output functions. ADT2000 will also support custom graphic annunciators and LCD displays with or without local control.

Peer-to-peer communications and remote panel intelligence provides the enhanced survivability and performance the world has come to expect from ADT brand products.

Audio capability offers an efficient emergency paging, evacuation signalling and firefighters' telephone system in perfectly integrated one or two channel packages. When distributed amplification is required, a remote mounting audio closet cabinet supports mounting of up to two 50 watt distributed amplifiers in remote locations.

Full support for the advanced Signature Series family of detectors and modules means ADT2000 enjoys a wide range of installation and operation benefits. Signature Series detectors and modules use electronic addressing — there are no dip switches or dials to set. This makes installation and programming incredibly fast and efficient.

And what's more, Signature Series' plug-in multi-function and dual circuit modules reduce wiring and installation costs, while its true multisensor technology eliminates detector application guesswork and makes nuisance alarms a thing of the past.

Identification of dirty or defective detectors is automatic with ADT2000. Maintenance scheduling is easy and effective, ensuring that life safety protection is always maintained. ADT2000 even allows the adjustment of detector sensitivity at different times of the day.

ADT2000 can use existing wiring, thanks to a unique communications protocol. This protocol eliminates the need for special communications-grade wiring, making ADT2000 fully compatible with existing conventional device wiring in most retrofit applications. Re-wiring a building is no longer a costly element of a life safety system upgrade.

ADT2000 offers the very best in modular flexibility, high-end features, and low-cost installation and maintenance. It's easy to see why this life safety system is fast becoming the industry's choice for small- to mid-range applications worldwide.

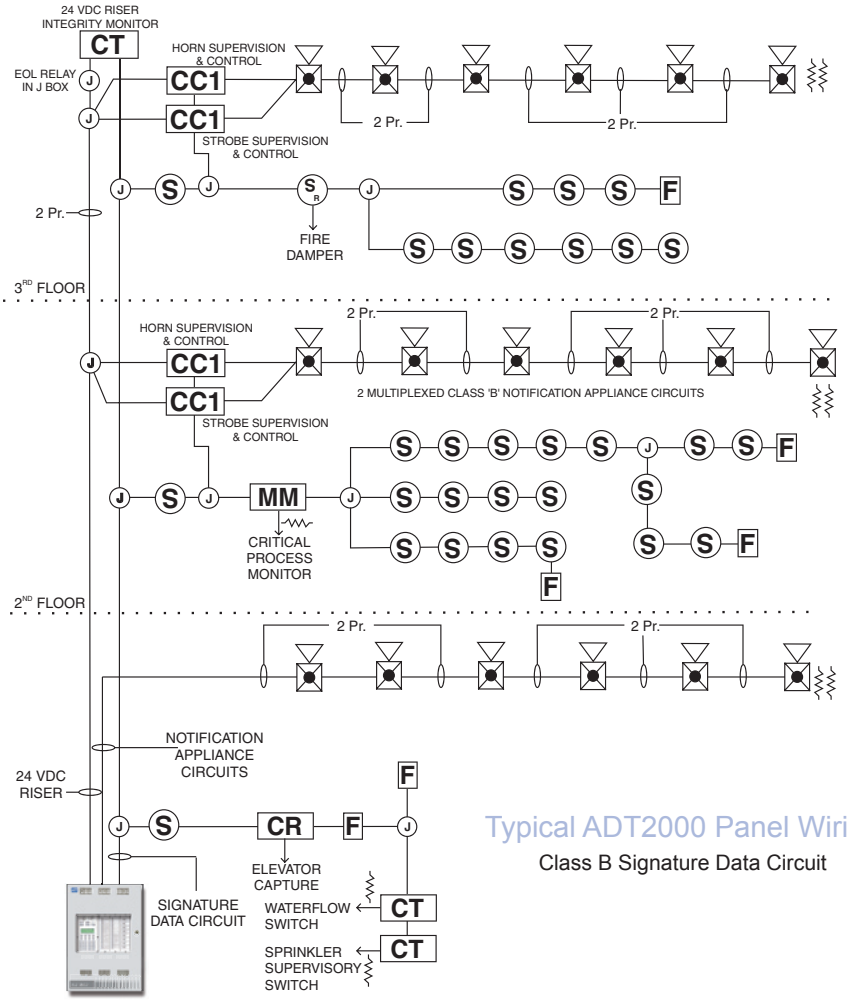
Standalone system configuration

ADT2000 ships with all the necessary ingredients. Each panel features a built-in Signature data circuit and two notification appliance circuits. An optional 2-LCX expansion module doubles the panel's standalone capacity, and more power can be added in 6.4 amp increments to the generous fully-rated standard supplies. Provisions for notification appliance circuit risers also allow for additional multiplex appliance circuits.

For applications calling for coded signals, the optional CDR-3 module provides a choice of march time generator or Positive Successive Non-Interfering (PSNI) outputs. CDR-3 outputs are selectable as a coded dry contact or supervised coded 1000Hz audio tone.

ADT2000 provides individual status queues annunciating Alarm, Supervisory, Trouble and Monitor operations. When a device operates, the appropriate message queue's status LED illuminates. At the same time, a programmed point or zone description displays on the back-lit LCD, giving specific text information for the active devices.

Operators can review messages by selecting the queue from the front panel and scrolling through it. The last 512 events can be reviewed at any time via the enhanced history log. The enhanced history log contains the complete event message with LIFO (last in first out) protocol. This ensures that the most current events are always logged.



Typical ADT2000 Panel Wiring
Class B Signature Data Circuit

LEGEND

		Page
F	Manual Pull Station	25
S	Smoke detector with relay base	18
S	Smoke detector with standard base	18
	Combination horn/strobe	31
CC1	Signal module	22
CR	Control relay module	22
CT	Input module	21
MM	Monitor module	23
	End-of-line resistor	
J	Junction box	

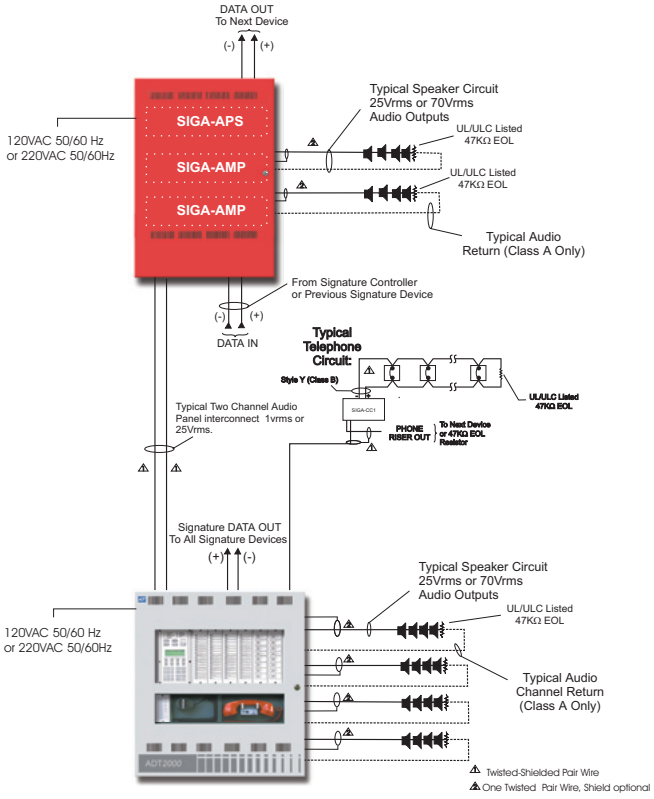
Audio system configuration

ADT2000 audio suits applications requiring emergency voice paging and evacuation signaling with or without firefighter's telephone. Single channel or dual channel applications easily configure using Signature distributed amplifiers or centrally banked amplifiers. Distributed amplifiers are available in 30 watt and 50 watt sizes. All ADT2000 audio amplifiers configure for $25V_{RMS}$ or $70V_{RMS}$ operation through simple jumper selection.

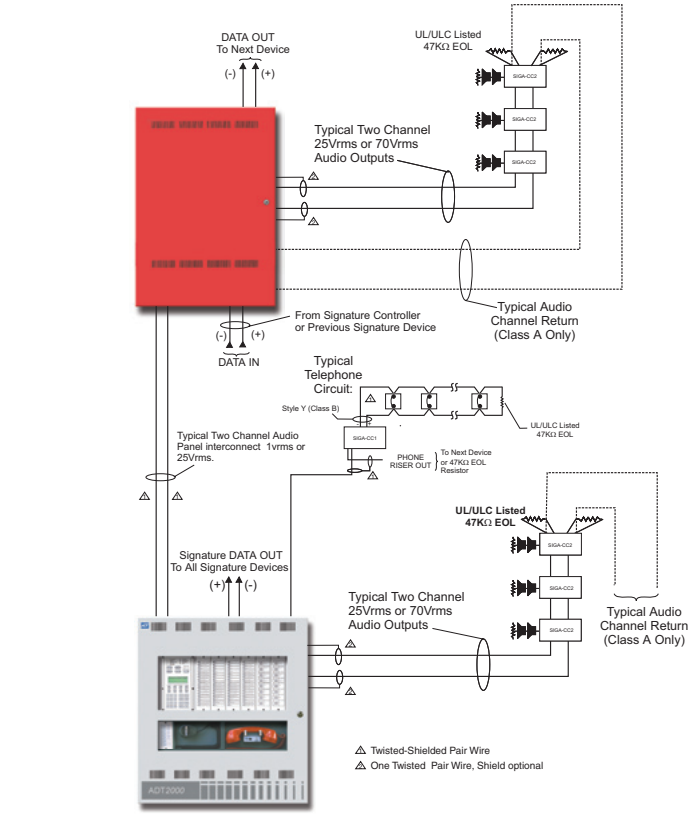
Signature amplifiers provide Class B or Class A wiring of audio output circuits. Speakers connect directly to the output of the Signature amplifier or the amplifier output can run as an audio riser to Signature modules where speaker zone selection is made. Each Signature amplifier has a built-in 1kHz tone generator and provision for a backup amplifier. Should an amplifier lose its input signal, the output will switch to a backup amplifier. If there is no backup amplifier or the output from the backup is unavailable, the output will receive the internal 1kHz tone as the evacuation signal.

For installations requiring firefighter's telephone, ADT2000 offers a master telephone module that allows communication with remote telephone stations. System paging is available through the front panel master microphone or through configured remote telephone stations. Six front panel switches allow emergency users to Page to the Evac riser, Page to the Alert riser, or quickly place Evac or Alert tones on all risers. After a paging operation, the system Audio Controller automatically returns to its pre-page state.

Zoned Amplifier Wiring



Distributed Banked Amplifier Wiring

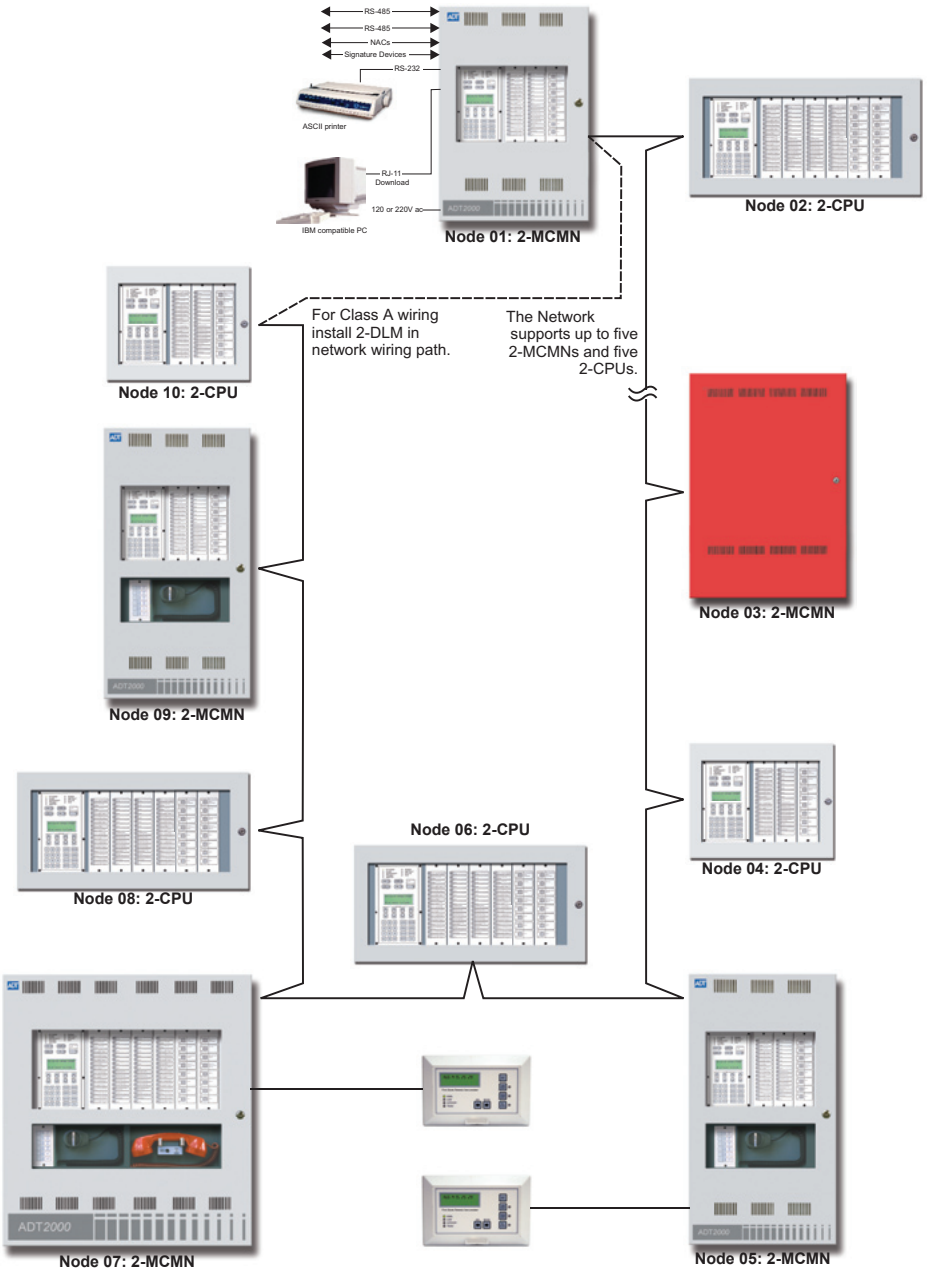


Networked system configuration

ADT2000 network configurations provide application flexibility and installation options that allow site-specific customization and meet local and national requirements. Networked ADT2000 panels support up to ten signature data circuits (SDCs), each with a capacity of 96 intelligent detectors and 94 intelligent Signature modules.

Each panel configures using standard ADT2000 audio and control components that communicate on a peer-to-peer two-wire RS-485 circuit. Network and annunciator communications can be configured for Class B or Class A wiring.

Unique programming flexibility allows network panels to meet most building applications including independent campus style arrangements or multiple control interfaces typical of high-rise applications.



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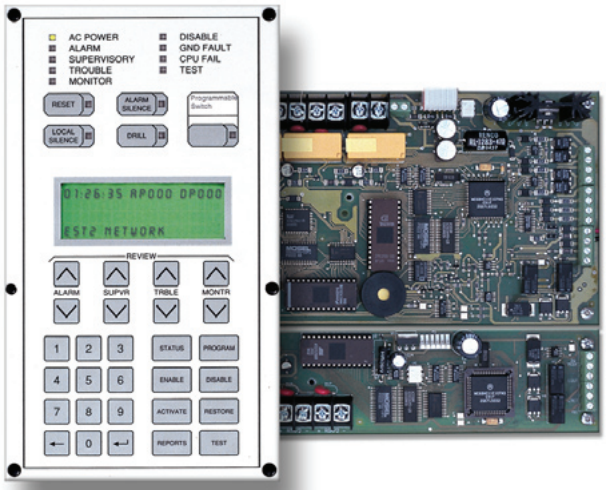
Main control and display

All ADT2000 panels feature an 80-character LCD display with an array of command switches, as well as a main controller that includes two built-in notification appliance circuits, a Signature data circuit, and ports for printers and annunciators.



2-MCD or 2-MCMN

2-LCD

2-LCX (optional)

Thanks to the modular flexibility of ADT2000, specifiying the panel's main control components is extremely simple. If a standalone (i.e.: non-networked) configuration is required, the 2-MCD provides all the basics, including two notification appliance circuits, a Signature data circuit, an RS-232 printer port, and an RS-485 communication port for remote annunciation. The 2-MCD also includes the panel's main LCD display, which provides four 20-character lines of alpha-numeric messaging, as well as general condition LEDs, and a wide range of command and display controls. Wallboxes accommodate up to six panel mounted annunciator modules.

Where networked configuration is required, the network controller (2-MCMN) and the LCD display (2-LCD) are specified separately. Together these provide the same basic features as the 2-MCD described above, but may be networked together to provide up to five control panel nodes.

Networked and non-networked controllers accommodate the optional 2-LCX expansion module. This provides an additional Signature data circuit and two notification circuits. Both standalone and networked control components also support one or two channel audio configurations. Audio components are found on page 6.

2-MCD*	Main Control and Display (for standalone configurations)	Data Sheet: I#1125
2-MCMN*	Network Main Control Module	Data Sheet: I#1126
2-LCD*	Network LCD Display Module	Data Sheet: I#1126
2-DLM	Network Data Line Monitor (Class A)	Data Sheet: I#1126
2-LCX	Expander Signature Data Circuit with two Notification Appliance Circuits	Data Sheet: I#1125
CDR3	Coder Module	Data Sheet: I#1173
IOP3A	RS-232 Optical Isolator Card	Data Sheet: I#1192
2-CCI	City of Chicago Interface	
DLSM	Data Line Short Monitor	

* Add "-CC" for City of Chicago approved equipment

SUBMIT

Audio components

ADT2000 audio panels provide efficient emergency paging, evacuation signaling and firefighters telephone systems in a range of perfectly integrated modular packages. Audio cabinets integrate both fire alarm control equipment and audio control equipment in one compact design. Wallboxes are available in sizes that accommodate a paging microphone, or a firefighters' handset, or both handset and microphone.

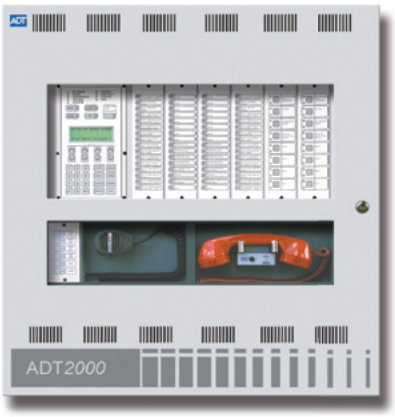
The audio sub-system features a powerful auto backup routine, built-in tone generator with 15 selectable tones, and dual channel Class A or B audio output.

System paging is available through the front panel master microphone or through configured remote telephone stations. For installations requiring firefighters' telephone, ADT2000 offers a master telephone module that allows communication with remote telephone stations.

Six front panel switches allow the emergency user to Page to the Evac riser, Page to the Alert riser or quickly place Evac or Alert tones on selected risers. After a paging operation, the audio controller automatically returns to its pre-page state.

When distributed amplification is needed, a single remote mounting audio closet cabinet supports mounting of up to two 50 watt distributed amplifiers in remote locations.

Both single channel or dual channel applications easily configure using Signature distributed amplifiers or ADT centrally banked amplifiers. Distributed amplifiers are available in 30 watt and 50 watt sizes.



2-WB7 wallbox with master microphone and firefighters' telephone

2-TEL firefighters' telephone

2-MIC paging microphone

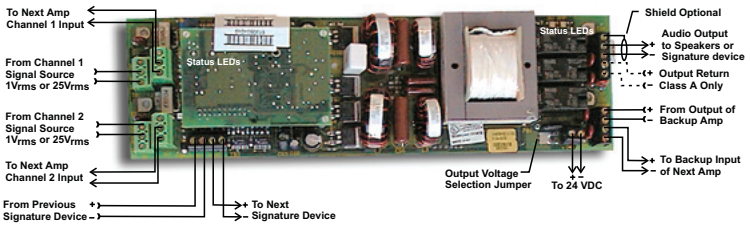
2-AAC audio controller

SIGA-MDM with UIO2R Motherboard

☐	2-AAC	Audio Controller	Data Sheet: I#1124
☐	2-MIC	Master Paging Microphone	Data Sheet: I#1124
☐	2-TEL	Firefighters' Master Telephone	Data Sheet: I#1124
☐	SIGA-MDM	Intelligent Digital Message Module	Data Sheet: I#1201
☐	SIGA-UIO2R	M Series two-position Motherboard	Data Sheet: I#1196

SUBMIT

Intelligent Audio Amplifiers


To Next Amp Channel 1 Input
From Channel 1 Signal Source 1Vrms or 25Vrms
From Channel 2 Signal Source 1Vrms or 25Vrms
To Next Amp Channel 2 Input
From Previous Signature Device
To Next Signature Device
Status LEDs
Status LEDs
Shield Optional
Audio Output to Speakers or Signature device
Output Return Class A Only
From Output of Backup Amp
To Backup Input of Next Amp
Output Voltage Selection Jumper
To 24 VDC

Signature Series amplifiers are high-efficiency switch-mode audio amplifiers available in 30 and 50 watt sizes. Amplifiers have two input channels supporting dual channel or single channel audio applications. Signature amplifiers are ideally suited for distributed audio applications and small centrally banked applications. The audio output is configurable as 25VRMS or 70VRMS in Class B or Class A wiring configurations. Speakers can connect directly to the output of the amplifier or the amplifier output can run as an audio riser to Signature modules where speaker zone selection is made. Each amplifier has a built-in 1kHz tone generator and provision for a backup amplifier. On-board status LEDs provide quick visual indication of amplifier status.

SIGA-AA30	30 Watt Intelligent Audio Amplifier	Data Sheet: I#1164
SIGA-AA50	50 Watt Intelligent Audio Amplifier	Data Sheet: I#1164

SUBMIT

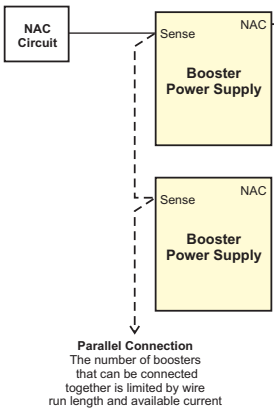
Power Supplies

Remote Booster Power Supply

The Remote Booster Power Supply is a self-contained 24 Vdc power supply designed to augment fire alarm audible and visual power requirements as well as provide power for auxiliary, access control and security applications. The booster contains all of the necessary circuits to monitor and charge batteries, control and supervise four Class B or two Class A NAC circuits and monitor two controlling inputs from external sources.

Simple switch selection provides a wide variety of operational configurations. Each remote booster power supply is supplied with its own enclosure providing ample space for additional interface modules and battery compartment.

When used with Genesis Notification appliances, the booster provides the ability to synchronize strobes as well as horn signals. The booster flexibility allows synchronization with upstream devices, or, the booster may be used to synchronize downstream devices, as well as other boosters and their connected devices. Up to 10 boosters deep may be configured while maintaining strobe synchronization.

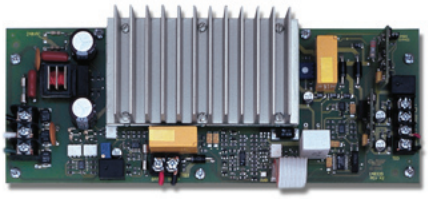


BPS notification appliance circuits easily configure for either of two signaling rates: 3-3-3 temporal or continuous. This makes the BPS ideal for applications requiring signaling rates not available from the main panel. It also allows independent setup of a notification appliance circuit without interfering with the main panel and its initiating circuits. In addition to the generated signal rates, the BPS can also be configured to follow the signal rate of the main panel's notification appliance circuit. This allows seamless expansion of existing NACs.

For comprehensive configuration and wiring details, refer to the BPS Application Guide.

☐	BPS6A	6.5 Amp Booster Power Supply	Data Sheet I#1547
☐	BPS6A/230	6.5 Amp Booster Power Supply (220V)	Data Sheet I#1547
☐	BPS6CAA	6.5 Amp Booster Power Supply with California rate	Data Sheet I#1547
☐	BPS10A	10 Amp Booster Power Supply	Data Sheet I#1547
☐	BPS10A/230	10 Amp Booster Power Supply (220V)	Data Sheet I#1547
☐	BPS10CAA	10 Amp Booster Power Supply with California rate	Data Sheet I#1547
☐	3-TAMP	Tamper switch	Data Sheet I#1547

Standard Power Supplies



All ADT2000 panels are available with 4.5 amp or 6.4 amp power supplies. These provide the full current rating for notification appliance circuits. Power is provided via two power limited 24Vdc sources. Additional power can be added in 6.4 amp increments. Provisions for notification appliance circuit risers allow for additional multiplex appliance circuits.

☐	2-PPS	4.5 Amp Power Supply — 120Vac	Data Sheet: I#1125
☐	2-PPS/6A	6.4 Amp Power Supply — 120Vac	Data Sheet: I#1125
☐	2-PPS/220	4.5 Amp Power Supply — 220Vac	Data Sheet: I#1125
☐	2-PPS/6A-220A	6.4 Amp Power Supply — 220Vac	Data Sheet: I#1125

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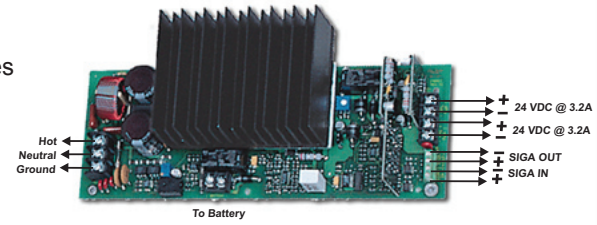
Intelligent Auxiliary Power Supplies



The SIGA-APS is a switch-mode power supply that provides additional power for any fire alarm control panel that includes a Signature Data Circuit. The SIGA-APS mounts with local fire alarm equipment or may be mounted remotely to supply power to signaling devices, amplifiers or system equipment. The power supply communicates with the main control panel over the Signature Data Circuit. This eliminates the need to mount additional monitoring equipment when the power supply is mounted remote from the main control panel.

SIGA-APS	Intelligent Auxiliary Power Supply — 120Vac 50/60Hz	Data Sheet: I#1176 ☐
SIGA-APS-220	Intelligent Auxiliary Power Supply — 220Vac 50/60Hz	Data Sheet: I#1176 ☐

Batteries and Battery Cabinets

Data Sheet I#1457

12 Volt Batteries	☐12V4A (4.5 Ah)	☐12V6A5 (7.2 Ah)	☐12V10A (11 Ah)	☐12V17A (18 Ah) ☐
☐12V1A2 (1.2 Ah)	☐12V24A (26 Ah)	☐12V40A (40 Ah)	☐12V50A (50 Ah)	☐12V65A (65 Ah)
6 Volt Batteries	☐6V8A (8 Ah)	☐6V10A (12 Ah)		☐
Battery Cabinets	☐BC-1R (holds up to two 40 Ah batteries) ☐ 3-RCC used as large battery enclosure.		☐BC-2 (holds up to two 17 Ah batteries)	☐

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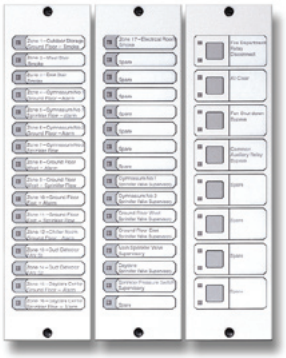
Display & remote annunciation

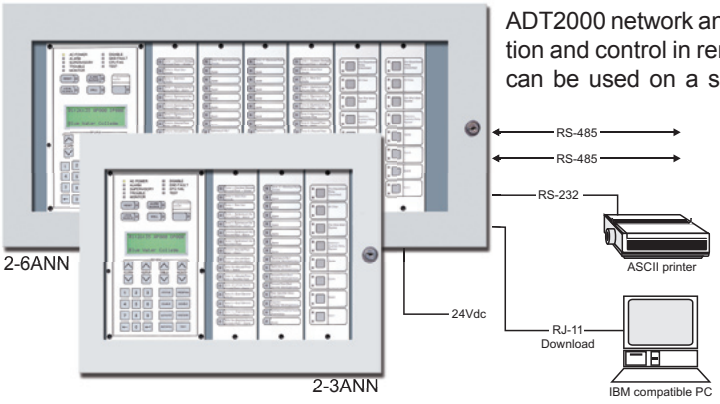


Annunciator Modules

ADT2000 provides ample annunciation for any mid-range life safety application. Up to 96 points or zones can be annunciated through software-controlled LEDs. LEDs and switch controls are modular and are available in eight different models that feature a wide selection of LED colors and switch/LED combinations. The same alpha-numeric LCD and annunciator LED modules are used for control and annunciation on both ADT2000 panels and remote annunciators.

☐	2-16R	16 Red LEDs	Data Sheet: I#1125
☐	2-16Y	16 Yellow LEDs	Data Sheet: I#1125
☐	2-16G	16 Green LEDs	Data Sheet: I#1125
☐	2-8RY	8 Red and 8 Yellow LEDs	Data Sheet: I#1125
☐	2-12R4Y	12 Red LEDs and 4 Yellow LEDs	Data Sheet: I#1125
☐	2-16G8S	16 Green LEDs and 8 Two Position Switches	Data Sheet: I#1125
☐	2-16R8S	16 Red LEDs and 8 Two Position Switches	Data Sheet: I#1125
☐	2-16Y8S	16 Yellow LEDs and 8 Two Position Switches	Data Sheet: I#1125
☐	2-8GYS	8 Green LEDs, 8 Yellow LEDs and 8 two Position Switches	Data Sheet: I#1125
☐	2-8RYS	8 Red LEDs, 8 Yellow LEDs and 8 two Position Switches	Data Sheet: I#1125

Network Annunciators



ADT2000 network annunciators provide full global system annunciation and control in remote locations. Up to five network annunciators can be used on a single ADT2000 network. Each node provides a separate RS-485 line that supports a full complement of local printers, LCD displays, and graphic and LED annunciators. Annunciator configurations include LCD display with LED/switch modules in a single enclosure. Message routing to specific displays brings the benefit of flexible custom message applications normally found in cost-prohibitive high-end systems. Annunciator modules can be arranged in any order on the inner door of the annunciator.

☐	2-LCD	Liquid Crystal Display Module	Data Sheet: I#1144
☐	2-CPU	Network Annunciator CPU	Data Sheet: I#1144
☐	2-3ANN/D	Door assembly for 6ANN/B or S — supports 1 2-LCD and 3 annunciator modules	Data Sheet: I#1144
☐	2-6ANN/D	Door assembly for 10ANN/B or S — supports 1 2-LCD and 6 annunciator modules	Data Sheet: I#1144
☐	6ANN/B	Flush wallbox for 2-3ANN/D	Data Sheet: I#1144
☐	6ANN/B-S	Surface wallbox for 2-3ANN/D	Data Sheet: I#1144
☐	10ANN/B	Flush wallbox for 2-6ANN/D	Data Sheet: I#1144
☐	10ANN/B-S	Surface wallbox for 2-6ANN/D	Data Sheet: I#1144

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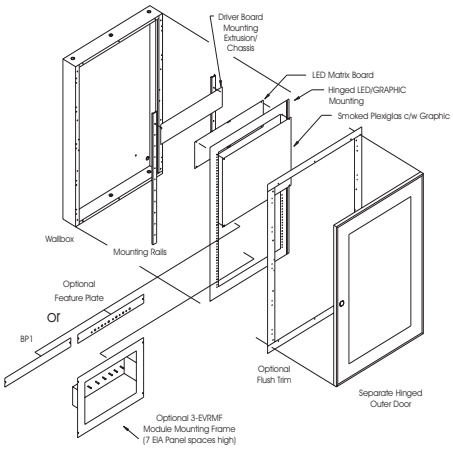
Envoy Graphic Annunciator

ENVOY graphic annunciators and smoke control panels are designed to present complex status and control information in an easy to understand package. The design of ENVOY products permits users to rapidly determine system status and easily operate associated system controls. The addition of system LCD annunciators and remote microphones can turn ENVOY into a complete fire command station.

ENVOY graphic annunciators display system information using high intensity LEDs mounted behind the smoked Plexiglas panel that displays the artwork. White artwork and text on a dark background is standard. Colored artwork is available as an option, to enhance building areas or individual zones. A variety of LEDs and switches are available to meet any display and control requirement.

Power ON, Trouble, and Signal Silenced LEDs; System Reset, Silence, Trouble Silence, and Drill push button switches are available as panel feature options. Other panel options include system LCD displays and remote microphones.

SENIOR SECONDARY SCHOOL
ADT
ENVOY
24VDC FROM 3-PPS/M OR 3-BPS/M POWER RISER
24VDC TO NEXT POWER MODULE
RS-485 NETWORK DATA FROM PREVIOUS PANEL
RS-485 NETWORK DATA TO NEXT PANEL

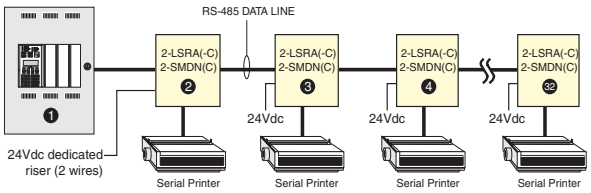


ENVOY graphic panels are available in three standard sizes to fit the needs of most installations. Wall boxes are manufactured from 16-gauge cold rolled steel and finished with a textured black baked enamel. Panels can be surface mount or semi-flush mount. When semi-flush mounting, optional trim kits provide a finished look to the installation.

EV1	Envoy Graphic Annunciator (maximum 96 LEDs)	Data Sheet: I#1143
EV1B	EV1 Wallbox: textured black finish	Data Sheet: I#1143
EV1T	EV1 Semi-Flush Trim: textured black finish	Data Sheet: I#1143
EV2	Envoy Graphic Annunciator (maximum 160 LEDs)	Data Sheet: I#1143
EV2B	EV2 Wallbox: textured black finish	Data Sheet: I#1143
EV2T	EV2 Semi-Flush Trim: textured black finish	Data Sheet: I#1143
EV3	Envoy Graphic Annunciator (maximum 256 LEDs)	Data Sheet: I#1143
EV3B	EV3 Wallbox: textured black finish	Data Sheet: I#1143
EV3T	EV3 Semi-Flush Trim: textured black finish	Data Sheet: I#1143

SUBMIT

Remote Alpha-numeric Annunciators



ADT2000 remote alpha-numeric display annunciators provide remote annunciation of system events and custom programmed messages. Annunciators incorporate power saving features that automatically turn off the front panel back lighting after four minutes if there is no switch activity and no unacknowledged messages are waiting. All annunciators include Normal, Alarm, Supervisory, and Trouble LEDs. There are two push-button switches labeled “Back” and “Next/Ack.” These acknowledge system event messages and allow the user to scroll through the event buffer. Models are also available with common control features.

LSRA Series Annunciators

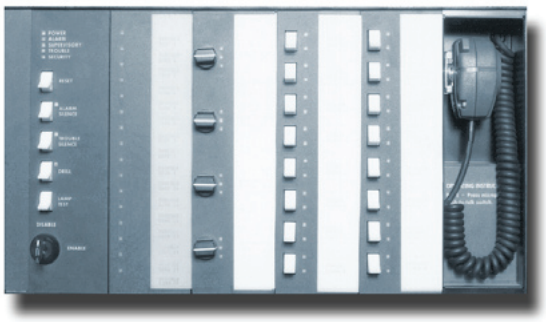
2-LSRA-C

LSRA annunciators mount in standard North American 2-gang electrical boxes, 4” square electrical boxes, or European 100mm square box enclosures. Annunciators come with four feature LEDs (Normal, Alarm, Supervisory, and Trouble) and two push-button Switches (“Back” and “Next/Ack”). LSRA-C annunciators support common control functions in addition to the four feature LEDs and the push buttons found on the LSRA. “Reset,” “Alarm Silence,” “Trouble Silence,” and “Drill/All Call” push button switches provide common control functions. LSRA-C annunciators allow individual programming of front panel switch operation. The controls are enabled by entering a password via the annunciator’s front switches or by activating an optional remote enable/disable key switch.

☐	2-LSRA	LSRA Remote Display, semi-flush mounting	Data Sheet: I#1145
☐	2-LSRA-C	LSRA with common control switches and enable/disable functions	Data Sheet: I#1145
☐	LSRA-232	Printer/programming port for LSRA series	Data Sheet: I#1145
☐	LSRA-RK	Remote Enable/Disable keyswitch (mounts in single-gang electrical box)	Data Sheet: I#1145

SUBMIT

Serial Annunciators



SAN Series annunciators are 19" rack-mounted control and display modules that may be mounted in the Envoy Graphic Annunciator or a separate recessed cabinet. Modules are available with a wide range of control switches, buttons and colored LEDs. The front of each SAN module is covered with black LEXAN overlay with a legend pocket for modules requiring switch and LED legends. A legend sheet in a choice of five different colors comes with each module.

Control Module: SAN modules are connected via ribbon cable to the SAN-CPU controller card. This card is microprocessor-based and includes an RS-485 data line. The SAN-CPU contains LEDs for polling status, and a DIP switch to set the panel address. Each SAN-CPU card will monitor 96 inputs (switches, SIN-16 circuits) and 96 outputs (LEDs, relay drivers). The CPU card requires a 24 Vdc power connection and a RS-485 data (class A or B) connection.

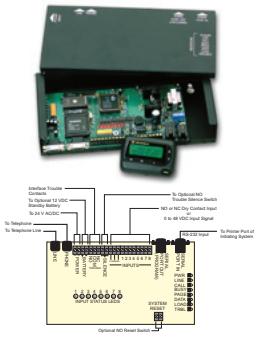
Common Controls: The 2-SANCOM is a common annunciation and control module. Switches and LEDs are input and output points and may be reconfigured through programming. The Enable/Disable key switch may be set so that the push button switches are be disabled until the keyswitch is placed in the Enable position.

Microphones: The SAN-MIC II is a SAN module that provides a paging microphone for remote paging applications. The paging microphone is typically connected to the microphone connection of the audio amplifier. It is a high signal output type with a push-to-talk switch. The SAN-MIC II module is a supervised microphone and tone generator module capable of operating at a location remote from the audio control and amplification equipment.

SAN-CPU	CPU card, RS-485 interface, 1 required per 96 inputs and 96 outputs	Data Sheet: I#1146	☐
SLU-16R	SAN module, 16 Red LEDs	Data Sheet: I#1146	☐
SLU-16Y	SAN module, 16 Yellow LEDs	Data Sheet: I#1146	☐
SWU-8	SAN module, 8 toggle switches with 2 yellow LEDs per switch	Data Sheet: I#1146	☐
SWU-8/3	SAN module, 8, 3 position toggle switches with two yellow LEDs per switch	Data Sheet: I#1146	☐
SRU-8	SAN module, 8 programmable relays	Data Sheet: I#1146	☐
SHO-4	SAN module, 4, 3 position switches, 2 yellow and 1 green LED per switch	Data Sheet: I#1146	☐
SDR-32	SAN module, 32 programmable outputs for remote LEDs	Data Sheet: I#1146	☐
SDR-32-C	SDR-32 circuit card only, no mounting hardware or faceplate	Data Sheet: I#1146	☐
SDR-32K	SAN module, 32 programmable outputs for remote LEDs or relays	Data Sheet: I#1146	☐
SDR-32K-C	SDR-32K circuit card only, no mounting hardware or faceplate	Data Sheet: I#1146	☐
SIN-16	SAN module, 16 dry contact inputs	Data Sheet: I#1146	☐
SIN-16-C	SIN-16 circuit card only, no mounting hardware or faceplate	Data Sheet: I#1146	☐
SAN-MIC II	Supervised microphone and tone generator module	Data Sheet: I#1146	☐
2-SANCOM	SAN module, common annunciation and control module	Data Sheet: I#1146	☐
SAN-4	Recessed cabinet, provides 4 single SAN module spaces, 1 SAN-CPU space	Data Sheet: I#1146	☐
SAN-8	Recessed cabinet, provides 8 single SAN module spaces, 2 SAN-CPU spaces	Data Sheet: I#1146	☐
RSAN-6	19" Rack mount unit, provides 6 single SAN module spaces, 1 SAN-CPU space	Data Sheet: I#1146	☐
BP-A	SAN cabinet filler plate	Data Sheet: I#1146	☐

SUBMIT

Communications



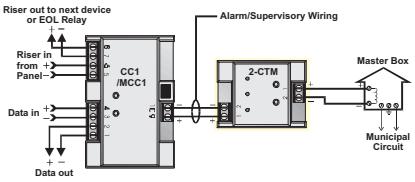
Alphanumeric Pager Interface

The API-8/232ME is an interface between alarm and monitoring equipment and personal pager systems or PCS messaging services. The interface ensures that key personnel, regardless of their location, are notified of ADT2000 status changes. The unit can monitor an ASCII text string from a serial printer port for eight different event types. Each event type is defined by one or two programmable keywords up to 20 characters in length. Should an alarm remain on the system for a predetermined period of time, an alarm escalation feature can be set to re-page the alarm. The system can be programmed to send a restoration page when the input returns to its normal state. The API-8/32ME is supplied in a surface mounted enclosure. Optional battery backup power is available. The unit supervises AC power, the telephone line, and the paging system connection. A trouble relay is provided for connection to an external annunciator.

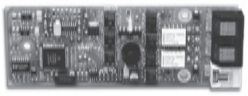
☐	API-8/232ME	Paging System Interface with programming software	Data Sheet: I#1193

City Tie Module

The 2-CTM provides a simple way of connecting ADT2000 to a local energy fire alarm box or City Master Box. One 2-CTM provides either supervisory or alarm signaling. To configure both supervisory and alarm signaling, two 2-CTMs are required.



☐	2-CTM	City Tie Module	Data Sheet: I#1125



Two-line Dialer

The DL2 is a Digital Alarm Communicator Transmitter (DACT) or phone dialer. The DL2 dialer automatically transmits to a Central Monitoring Station control panel off-normal conditions and is capable of transmitting 32 unique zones. The DL2 sends a supervisory message every 24 hours to the Central Monitoring Station, verifying phone line operation and message receipt.

☐	2-DACT	ADT2000 Two-line Dialer	Data Sheet: I#1186

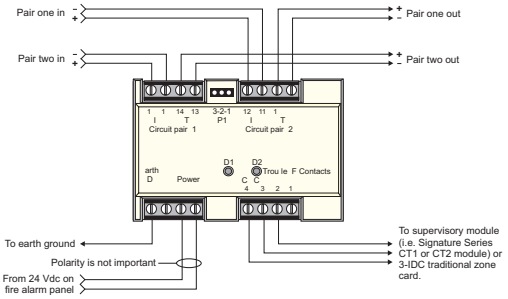
SUBMIT

Accessories

Ground Fault Detection Module

The GFD module is designed to detect ground fault conditions on either of two independent power or data circuits. Each circuit must be balanced with respect to ground.

The module will detect when the resistance between any of the monitored conductors and earth ground drops below 10 K Ohms. Two LEDs are provided to indicate the conductor with the ground condition. A normally energized Trouble/Ground Fault relay is provided with NO/NC relay contacts for interfacing with monitoring systems.


Pair one in
Pair two in
Pair one out
Pair two out
Circuit pair 1
Circuit pair 2
Power
To earth ground
Polarity is not important
From 24 Vdc on fire alarm panel
To supervisory module (i.e. Signature Series CT1 or CT2 module) or 3-IDC traditional zone card.

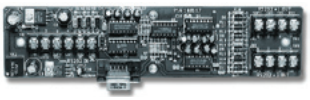
The GFD operates in one of two modes, selectable by jumper position. Mode One places a ground fault on the common terminal of the relay. When used with a Signature input module, this configuration provides independent indications of ground fault and GFD module trouble conditions at the control panel. Mode Two deactivates the normally energized relay contact upon ground fault or module trouble.

The ground fault relay activates when any monitored conductor experiences a ground fault condition. The trouble relay operates when module power is not available or when the supervisory watchdog timer activates. The module mounts in a two-gang electrical box.

GFD	Ground Fault Detection Module	Data Sheet I#1439

RS-232 Optical Isolator Card

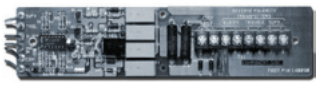
The IOP3A is an optically isolated RS-232 card that electrically isolates the power between the CM1(N), CM2N, FCC, and 3-CPU(1). It also provides power for use with short haul modems and fiber optic drivers. The IOP3A, through it's on-card regulator, generates isolated power for the RS-232 drivers. The on-card regulator also provides isolated 12 Vdc power for use with external modems and drivers.



IOP3A	Isolated RS-232 card	Data Sheet: I#1192

Reverse Polarity Module

Provides three reverse polarity transmitters: one for system common alarm; one for system common trouble; and, one for system common supervisory.



RPM	Reverse Polarity Module	Data Sheet: I#1125

Desktop Serial Printer

The PT-1 series printers are high-speed, nine-pin dot matrix type. It is used to permanently record life safety system changes of state. All printed entries contain the date, time, event type and a user-defined message for each printed event. The printer is required in proprietary systems and requires a backup UPS power source. In auxiliary, local, or remote station systems, the printer is optional.

PT-1S	Serial Printer	Data Sheet: I#1152
PT-1S/220	Serial Printer — 220/240Vac	Data Sheet: I#1152

SUBMIT

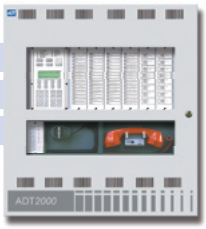
Wallboxes and cabinets

Wallboxes

ADT2000 offers a wide selection of wallboxes that take full advantage of its modular design. Wallboxes provide space for control, monitoring and display modules. Ideal for mounting in lobbies where appearance is important, ADT2000 wallboxes are available in several sizes that accommodate the full complement of audio and network components. Wallbox doors have viewing windows and are available in gray baked enamel or red baked enamel finishes.

☐	2-WB	Semi-Flush Wallbox	Data Sheet: I#1126
☐	2-WBD	Inner and Outer doors for 2-WB Wallbox	Data Sheet: I#1126
☐	2-WBS	Surface Wallbox	Data Sheet: I#1126
☐	2-WBDS	Inner and Outer doors for 2-WBS Wallbox	Data Sheet: I#1126

☐	2-WB3	Long Surface Wallbox	Data Sheet: I#1126
☐	2-WB3D	Inner and Outer doors for 2-WB3 Wallbox	Data Sheet: I#1126
☐	2-WB3D/DF	Outer Door for 2-WB3. No viewing window (red finish)	Data Sheet: I#1126
☐	2-LFK	Long Semi-Flush Trim Kit for 2-WB3 Wallbox	Data Sheet: I#1126



☐	2-WB7	Double wide Surface Wallbox	Data Sheet: I#1126
☐	2-WB7D	Inner and Outer doors for 2-WB7 Wallbox	Data Sheet: I#1126
☐	2-DFK	Double Wide Semi-flush Trim Kit for 2-WB7 Wallbox	Data Sheet: I#1126

Remote Audio Closet Cabinet

The Remote Audio Closet Cabinet provides an economical means of installing equipment in locations such as electrical closets where aesthetics are not paramount. Remote Audio Closet Cabinets are surface mounted and supports mounting of up to two 50 watt distributed amplifiers. They have left-hand hinged doors and are available with red finish only. RCC cabinets can also be used as remote battery cabinets.

☐	RACCR	Remote Audio Closet Cabinet (red finish only)	Data Sheet: I#1126
☐	RACCDR	Door for RACCR Wallbox	Data Sheet: I#1126

Smoke Detectors p. 18
Detector Bases p. 19
Duct Detectors p. 20
Input/Output Modules p. 20
Input/Output Motherboards p. 24
Releasing Module p. 25
Pull Stations p. 26
Intelligent Audio Amplifiers p. 27
Intelligent Power Supplies p. 27
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Signature Series

Intelligent Analog Initiating Devices

ADT2000's Signature Series intelligent analog-addressable system is an entire family of fire alarm and security detectors as well as mounting bases, multiple-function input and output modules, and user-friendly maintenance and service tools.

Analog information from equipment connected to Signature devices is gathered and converted into digital signals. At the heart of each Signature Series device is an on-board microprocessor that analyses these signals and decides whether or not to input an alarm. The power of this approach, known as distributed intelligence, provides four important benefits: self-diagnostics and history logging; automatic device mapping; stand-alone operation; and, fast, stable communication.

Self-diagnostics and History Log – Signature Series devices constantly run self-checks to provide important maintenance information. The results of these checks are automatically updated and permanently stored in the device's non-volatile memory. This information is accessible for review using the System Definition Utility. The information stored in device memory includes:

Test Fire	Type of Detector				
	ADT-IS Ion	ADT-PS Photo	ADT-HRS, ADT-HFS Heat	ADT-PHS Photo/ Heat	ADT-IPHS Ion/ Photo/ Heat
Open Wood	optimum	unsuitable	optimum	very suitable	optimum
Wood Pyrolysis	suitable	optimum	unsuitable	optimum	optimum
Smoldering Cotton	very suitable	optimum	unsuitable	optimum	optimum
Poly Urethane Foam	very suitable	very suitable	suitable	very suitable	optimum
n Heptane	optimum	very suitable	suitable	optimum	optimum
Liquid Fire, no Smoke	unsuitable	unsuitable	optimum	very suitable	optimum

True multisensor technology means that a single device can perform optimally under a wider range of conditions than any single-sensor detector.

- device serial number, address, and type;
- date of manufacture, hours of operation, and last maintenance date;
- number of recorded alarms and troubles; and,
- up to 32 possible trouble codes which may be used to specifically diagnose faults.

Automatic Device Mapping – The Signature Loop Controller learns where each device's serial number address is installed relative to other devices on the circuit. The controller keeps a map of all Signature Series devices connected to it. The System Definition Utility program also uses this mapping feature. With interactive menus and graphic support, the wired circuits between each device can be examined. Layout or As-Built drawing information showing branch wiring (T-taps), device types and their addresses are stored on disk. This takes much of the mystery out of the installation and makes the preparation of As-Built drawings fast and very efficient.

Device mapping allows the Signature Loop Controller to discover:

- unexpected additional device addresses;
- missing device addresses; and,
- changes to the wiring in the circuit.

Most Signature modules use a personality code selected by the installer to determine their actual function. Personality codes are downloaded from the controller during system configuration and are indicated during device mapping.

Fast Stable Communication – Built-in intelligence means less information needs to be sent between the device and the Signature Loop Controller. Other than routine supervisory polling responses, Signature devices only need to communicate with the controller when they have something new to report. This provides very fast control panel response and allows a lower baud rate (speed) to be used for communication on the circuit. The lower baud rate offers several advantages including:

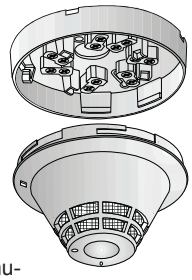
- less sensitivity to circuit wire characteristics;
- less sensitivity to noise glitches on the cable;
- less emitted noise from the analog wiring; and,
- twisted or shielded wiring is not required.

Testing & Maintenance – Automatic self-diagnosis identifies when a Signature device is defective and issues a trouble message. The user-friendly maintenance program shows the current state of each device and other pertinent information. Single devices may be turned off temporarily, directly from the control panel.

SUBMIT

Signature Series

Detectors and Bases



Signature Series products are intelligent devices that have significantly lower communications requirements than those of sensor type devices. Because of the low Signature communications rate there are no special wiring requirements for Signature circuits. This permits Signature devices to use existing wiring, as long as the wiring is in good shape, free of electrical noise, When existing wiring is used, the Signature devices will properly map the circuit, function as designed, and provide overall network response time of less than three seconds. For new installations, twisted-pair wiring is all that is recommended.

Intelligent 4D Multisensor Detector

Integrates three sensing technologies — Ionization, Photoelectric, and Heat — into one detector. Select alarm point for any one of five sensitivity settings between 0.67 to 3.70% per foot. Heat detector alarms when it sees a 65° F (35° C) increase in ambient temperature. Mounts to separate Standard, Relay, Isolator, or Sounder detector base.

☐	ADT-IPHS	Intelligent 4D Multisensor Detector, White	Data Sheet: I#1206
☐	SIGA-IPHSB	Intelligent 4D Multisensor Detector, Black	Data Sheet: I#1206

Intelligent 3D Multisensor Detector

Integrates two sensing technologies — Photoelectric and Heat — into one detector. Select alarm point for any one of five sensitivity settings between 0.67 to 3.77% per foot. Heat detector alarms at 135° F (57° C) ambient temperature. Mounts to separate Standard, Relay, Isolator, or Sounder detector base.

☐	ADT-PHS	Intelligent 3D Multisensor Detector, White	Data Sheet: I#1207

Intelligent Photoelectric Detector

Select alarm point for any one of five sensitivity settings between 0.67 to 3.77% per foot. Mounts to separate Standard, Relay, Isolator, or Sounder detector base.

☐	ADT-PS	Intelligent Photoelectric Detector, White	Data Sheet: I#1208

Intelligent Ionization Detector

Select alarm point for any one of five sensitivity settings between 0.61 to 1.91% per foot. Mounts to separate Standard, Relay, Isolator, or Sounder detector base.

☐	ADT-IS	Intelligent Ionization Detector, White	Data Sheet: I#1209

Intelligent Rate-of-Rise/Fixed Temperature Heat Detector

Includes 15° F (9° C) per minute rate-of-rise and 135° F (57° C) fixed temperature sensor. Mounts to separate Standard, Relay, Isolator, or Sounder detector base.

☐	ADT-HRS	Intelligent Rate-of-Rise/Fixed Temperature Heat Detector, White	Data Sheet: I#1210

Intelligent Fixed Temperature Heat Detector

Includes 135° F (57° C) fixed temperature sensor. Mounts to separate Standard, Relay, Isolator, or Sounder base.

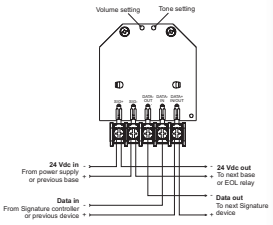
☐	ADT-HFS	Intelligent Fixed Temperature Heat Detector, White	Data Sheet: I#1210

Expander Signature Data Circuit, p. 5; Remote LED, p. 28.

SUBMIT

Audible (Sounder) Detector Base

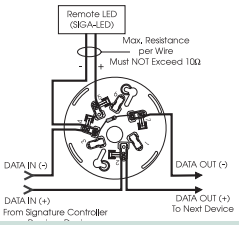
The Signature Series AB4G sounder base adds an audible output function to any Signature Series detector. The base can operate as an independent local alarm, or as part of a zone or system alarm with synchronized audible output. The AB4G may be configured in the field for either steady or temporal output and either high or low dB output.



SIGA-AB4G	Audible (Sounder) Base	Data Sheet: I#1525 ☐

Standard Detector Base

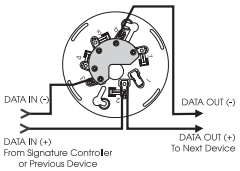
Signature detector base provides roomside wiring terminals. Mounts to North American one-gang box, 3½ or 4-inch octagon boxes, or 4-inch square electric box. Bases for 4-inch square boxes include the SIGA-TS4 Trim Skirt to conceal the electric box and provide a finished appearance.



☐SIGA-SB	☐SIGA-SB4 (with trim skirt)	Standard Detector Base	Data Sheet: I#1206 ☐

Isolator Detector Base

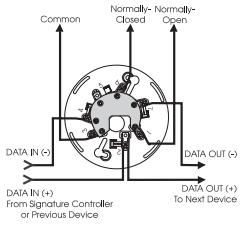
Signature detector base provides room-side wiring terminals and includes a built-in line fault isolator. Models with integral switches allow the detector to be removed from its base without causing the isolator to operate. Mounts to North American one-gang box, 3½ or 4-inch octagon boxes, or 4-inch square electrical boxes. Bases for 4-inch square boxes include the SIGA-TS4 Trim Skirt to conceal the electrical box and provide a finished appearance.



☐SIGA-IB	☐SIGA-IB4 (with trim skirt)	Isolator Detector Base	Data Sheet: I#1206 ☐

Relay Detector Base

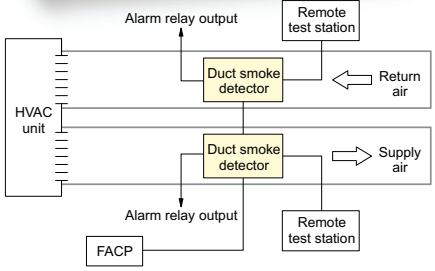
This base includes a relay. Normally-open or closed operation is selected during installation. The dry contact is rated for 1 amp (pilot duty) @ 30 Vdc. The relay's position is supervised to avoid accidentally jarring it out of position. The relay base does not support the SIGA-LED remote LED. It mounts to North American one-gang boxes, 3½ or 4-inch octagon boxes, or 4-inch square electrical boxes. Bases for 4-inch square boxes include the SIGA-TS4 Trim Skirt to conceal the electrical box and provide a finished appearance.



☐SIGA-RB	☐SIGA-RB4 (with trim skirt)	Relay Detector Base	Data Sheet: I#1206 ☐

Trim skirt, p. 28; Detector Guard, p. 28; Detector Mounting Plate, p. 28.

SUBMIT



SuperDuct Duct Detectors

Less than two inches deep, SuperDuct intelligent smoke detectors are ideal for installation in ductwork, where space is always at a premium. Offering the most advanced and most reliable performance in its class, SuperDuct represents the perfect balance of practical design and advanced technology.

SuperDuct detectors feature a unique design that speeds installation and simplifies maintenance. Removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets keep contaminants away from components, ensuring years of trouble-free service. When cleaning is required, the assemblies come apart easily and snap back together in seconds.

☐	SIGA-SD	Intelligent SuperDuct Detector			Data Sheet: I#1554
☐	Sampling Tubes	☐SD-T8 (8”)	☐SD-T18 (18”)	☐SD-T24 (24”)	☐SD-T36 (36”)
		☐SD-T42 (42”)	☐SD-T60 (60”)	☐SD-T78 (78”)	☐SD-T120 (120”)
☐	Remote Test Stations	☐SD-TRM (magnetic)	☐SD-TRM (keyed)	☐SIGA-LED (Remote alarm LED)	
☐	Accessories	☐SD-GSK (cover gasket kit)	☐SD-MAG (Test magnet kit)		
		☐SD-VTK (Air velocity test kit, stoppers only)		☐SIGA-SDPCB (PCB/Signature sensor kit)	

Signature Series

Input/Output Modules

Plug-in UIOs with motherboard

Standard two-gang mount

Signature Series input/output modules are extremely flexible and powerful devices that gather analog information from the slave devices connected to them and convert this data into digital signals. They are available in models that mount in standard one- or two-gang electrical boxes, as well as versions that plug into UIO motherboards.

The actual function of each module is determined by its installer-selected personality code. This is downloaded to the module from the Signature Loop Controller during system configuration. Because they are intelligent devices, all decisions are made at the module. This allows lower communication speed but very fast control panel response time and less sensitivity to line noise and loop wiring properties. As a result, twisted or shielded wire is not required.

Application	Module
Voice messages	Digital Messaging Module
Waterflow Switches	Waterflow/Tamper Module
Class A indicating and initiating circuits, two-wire smoke detectors	Universal Class A/B Module
Class B Initiating Circuits: Door Closers, Fans, Dampers	Class B Input Module
	Monitor Module
	Control Relay Module
	Programmable I/O Module
Telephone Power and Audible/Visual Signal Power Selector, Strobe Synchronization	Signal Module
Sounder Base power	Reversal Relay Module
Supervision of Telephone and Signal Power	Riser Monitor Module
Fire Suppression	Releasing Module
Fault detection	Isolator Module

Signature Series intelligent input/output modules feature multiple user-set personality codes that define the module’s behavior.

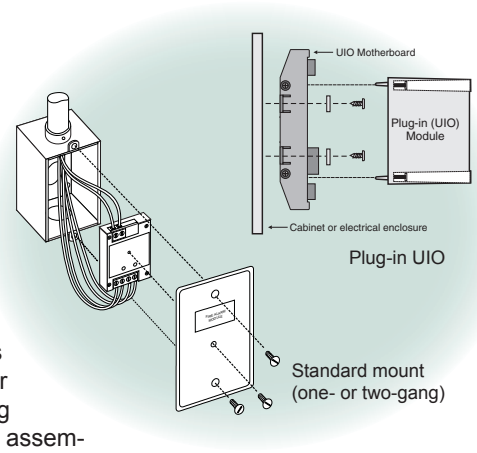
SUBMIT

Module mounting and installation options

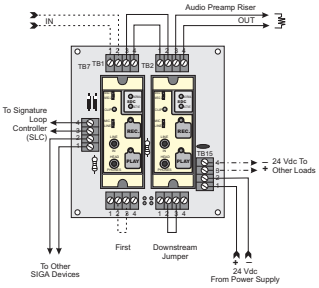
Signature Series input/output modules are available in models that feature two mounting options: standard mount and plug-in.

Standard mount models are installed to North American two-gang or one-gang electrical boxes, making them ideal for locations where only one module is required. Separate I/O and data loop connections are made to each module.

Plug-in UIO modules mount to UIO motherboards. Two- and six-module UIO motherboards are available, making them ideal for installations where more than one module is required. Motherboards can accommodate individual risers for each on-board module, or shared risers in any combination with their UIO modules. All wiring connections are made to terminal blocks on the motherboard. UIO assemblies may be mounted in either cabinets, or standard electrical enclosures.



Digital Message Module



The SIGA-MDM Digital Message Module provides custom pre-recorded voice messaging. Two standard factory pre-recorded messages are included. Each module can store two 30 second messages in its non-volatile EEPROM memory. A microphone/line-level audio input stereo jack and output stereo jack, as well as record and playback switches are conveniently located on top of the module. Programming in the Signature Data Controller provides all control instructions; extra wiring for monitoring or controlling circuits is not required. Up to 47 modules can be cascaded together. The SIGA-MDM is available as a plug-in module only.

SIGA-MDM	Intelligent Digital Message Module	Data Sheet: I#1201

Universal Class A/B Module

The Universal Class A/B Module is used to connect initiating, appliance, or two-wire smoke circuits in either Class A or Class B configurations. The plug-in version can also be used as a Class A dry contact initiating device circuit. The actual function of this module is determined by the "personality code" selected by the installer. Up to fifteen personalities are available.

SIGA-UM	Universal Class A/B Module (Two-gang standard mount)	Data Sheet: I#1202
SIGA-MAB	Universal Class A/B UIO (Plug-in) Module	Data Sheet: I#1202

Class B Input Module

The Class B Input Module is used to connect Class B normally-open Alarm, Supervisory, or Monitor type dry contact initiating device circuits. The standard-mount version is available with either one or two input connections. The plug-in version accepts two input connections. The actual function of this module is determined by the "personality code" selected by the installer. A total of four personalities are available.

SIGA-CT1	Single Input Module (One-gang standard mount)	Data Sheet: I#1198
SIGA-CT2	Dual Input Module (One-gang standard mount)	Data Sheet: I#1198
SIGA-MCT2	Dual Input UIO (Plug-in) Module	Data Sheet: I#1198

Expander Signature Data Circuit p. 5; UIO Motherboards, p. 24

SUBMIT

Signal Module

The Signal Module is used to connect, upon command from the loop controller, supervised Class B signal or telephone circuits to their respective power inputs. Models are available with one or two power inputs. These may be either polarized 24 Vdc to operate audible and visual signal appliances, or 25 and 70V$_{RMS}$ to operate audio evacuation speakers and firefighter's telephones. The actual function of this module is determined by the "personality code" selected by the installer. A total of three personalities are available.

☐	SIGA-CC1	Single Input Signal Module (Two-gang standard mount)	Data Sheet: I#1200
☐	SIGA-MCC1	Single Input Signal UIO (Plug-in) Module	Data Sheet: I#1200
☐	SIGA-CC2	Dual Input Signal Module (Two-gang standard mount)	Data Sheet: I#1200
☐	SIGA-MCC2	Dual Input Signal UIO (Plug-in) Module	Data Sheet: I#1200

Control Relay Module

The Control Relay Module provides a Form C dry relay contact to control external appliances such as door closers, fans, dampers etc. This device does not provide supervision of the state of the relay contact. Instead, the on-board microprocessor ensures that the relay is in the proper ON/OFF state. Upon command from the loop controller, the relay activates the normally open or normally-closed contact. This module supports only one personality: no user configuration is required.

☐	SIGA-CR	Control Relay Module (One-gang standard mount)	Data Sheet: I#1197
☐	SIGA-MCR	Control Relay UIO (Plug-in) Module	Data Sheet: I#1197

Polarity Reversal Relay Module

The Polarity Reversal Relay Module provides a Form C dry relay contact to power and activate a series of SIGA-AB4 Audible Sounder Bases. Upon command from the Signature loop controller, the SIGA-CRR reverses the polarity of its 24 Vdc output, thus activating all Sounder Bases on the data loop. This module supports only one personality: no user configuration is required.

☐	SIGA-CRR	Polarity Reversal Relay Module (One-gang standard mount)	Data Sheet: I#1197
☐	SIGA-MCRR	Polarity Reversal Relay UIO (Plug-in) Module	Data Sheet: I#1197

Expander Signature Data Circuit p. 5; UIO Motherboards, p. 24; AB4G Sounder Base, p. 19.

SUBMIT

Waterflow/Tamper Module

The SIGA-WTM Waterflow/Tamper Module is a two circuit intelligent module. Circuit 1 is for Class B normally-open waterflow alarm switches. When the input contact is closed for approximately 16 seconds, an “alarm” signal is sent to the loop controller. Circuit 2 is for Class B normally open dry contact supervisory and tamper switches. When the input contact is closed, an “active” signal is sent to the loop controller. Conditions on both circuits are latched at the module.

SIGA-WTM

SIGA-WTM	Waterflow/Tamper Module (One-gang standard mount)	Data Sheet: I#1199 ☐

Isolator Module

The SIGA-IM Isolator Module is an intelligent device that allows part of the Signature data loop to continue operating in the event of a short circuit. The module can be wired into a Class A data loop at any point. A maximum of 96 isolator modules can be installed on one circuit. If a fault occurs, the isolator cuts power to all devices beyond the isolator on the loop. Once activated, the line fault isolator continuously checks the faulted side of the loop to determine if the short still exists. When the fault is cleared, the module automatically restores the entire data loop to its normal condition.

SIGA-IM

SIGA-IM	Fault Isolator Module (Two-gang standard mount)	Data Sheet: I#1203 ☐

Monitor Module

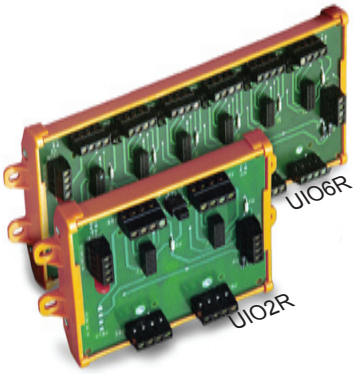
The SIGA-MM1 is a single-circuit intelligent module that includes a Class B normally-open dry contact. This is used for monitoring input from devices such as fans, dampers, and doors. When the input contact is closed, an “active” signal is sent to the loop controller. The active condition is not latched at the module.

SIGA-MM1

SIGA-MM1	Monitor Module (One-gang standard mount)	Data Sheet: I#1199 ☐

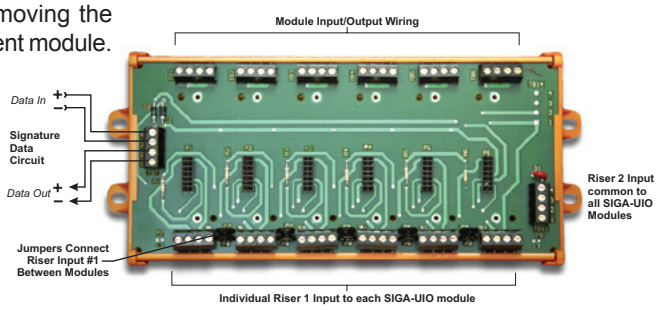
SUBMIT

Universal Input/Output (UIO) Motherboards



Signature Series Universal Input/Output Module Motherboards provide mounting and wiring terminations for up to six Signature Series plug-in UIO (SIGA-"M" series) modules. UIO motherboards snap into a rigid extruded track (included) with mounting pads for convenient mounting into a variety of equipment enclosures. UIO modules plug into the board and are held securely in place with captive machine screws. All field wiring connects to terminal blocks on the motherboard, which permits rapid removal and replacement of modules for troubleshooting.

The SIGA-UIO2R provides mounting and wiring terminations for up to two UIO modules, and the SIGA-UIO6R provides mounting and wiring terminations for up to six UIO modules. Both motherboards feature a riser #1 input and a riser #2 input bus. Jumpers on riser #1 input (between modules), facilitate sharing a single riser among more than one module. This significantly reduces wiring requirements. Removing the jumpers provides separate riser inputs to each adjacent module. Riser #2 input is fixed to each module position and cannot be split.


Module Input/Output Wiring
Data In
Signature Data Circuit
Data Out
Jumpers Connect Riser Input #1 Between Modules
Riser 2 Input common to all SIGA-UIO Modules
Individual Riser 1 Input to each SIGA-UIO module

The SIGA-UIO6 provides mounting and wiring terminations for up to six UIO modules. This motherboard provides two riser inputs that are common to all modules.

UIO motherboards mount inside the MFC-A cabinet or other suitable UL-listed electrical enclosure. Each MFC-A will hold one UIO2R motherboard or one UIO6 or UIO6R motherboard complete with their full complement of modules.

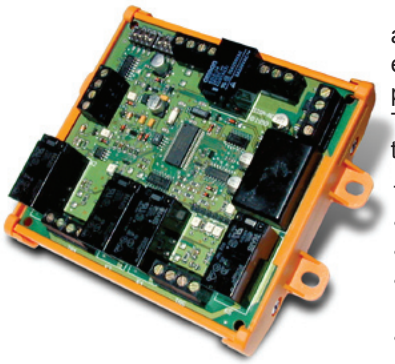
SIGA-UIO2R	Universal Input/Output Module Board with Riser Inputs — 2 Module Positions	Data Sheet: I#1196
SIGA-UIO6R	Universal Input/Output Module Board with Riser Inputs — 6 Module Positions	Data Sheet: I#1196
SIGA-UIO6	Universal Input/Output Module Board — 6 Module Positions	Data Sheet: I#1196

Related Equipment

MFC-A	Multi-function Cabinet (for UIO and Releasing modules)
27193-11	Surface Mount Box - Red, One-gang
27193-16	Surface Mount Box - White, One-gang
27193-21	Surface Mount Box - Red, Two-gang
27193-26	Surface Mount Box - White, Two-gang
235196P	Bi-polar Transient Protector (use with all Signal Modules)
SIGA-MP1	Signature Module Mounting Plate, 1 footprint
SIGA-MP2	Signature Module Mounting Plate, 1/2 footprint
SIGA-MP2L	Signature Module Mounting Plate, 1/2 extended footprint

SUBMIT

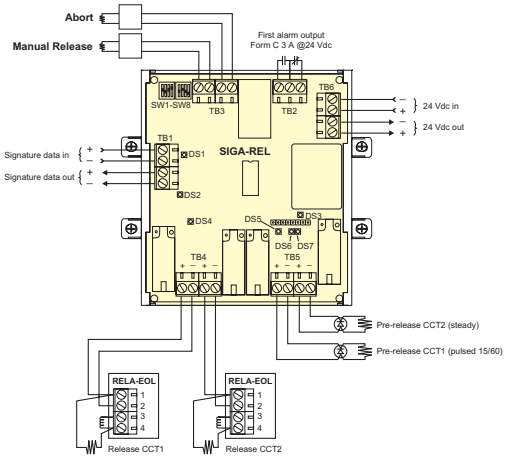
Releasing Module



The Signature Series Releasing Module (SIGA-REL) is an analog addressable module that works with fire suppression systems designed to release extinguishing gas such as Halon. Its primary function is the control of sprinkler pre-action routines and the initiation of suppression system deluge functions. The module is easily configured in the field and offers a wide range of options that prevent the unnecessary release of extinguishing agent.

The SIGA-REL is a network component consisting of:

- Two supervised release circuits
- Two supervised pre-release circuits
- One supervised manual release input circuit
- One supervised abort circuit for N/O abort switch
- One first alarm output relay (Form C Contact)



The releasing module includes a built-in timer that inhibits the deluge function during the pre-action routine. One of four pre-action routines, may be selected by means of dip-switches on the module. The duration of automatic and manual time delays, as well as the abort time settings are also selectable with dip-switches. The SIGA-REL mounts inside an MFC-A cabinet or other suitable UL-listed electrical enclosure. Each MFC-A will hold one SIGA-REL.

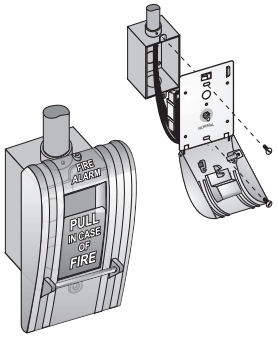
Available releasing module accessories include dedicated pull stations, abort switches and service switches. Together with the SIGA-REL, they comprise a complete fire suppression package.

SIGA-REL	Analog addressable releasing module	Data Sheet: I#1277
RELA-ABT	Abort station	Data Sheet: I#1277
RELA-SRV	Service disconnect station	Data Sheet: I#1277
ADT276A-REL	Manual releasing station (single-action)	Data Sheet: I#1277
ADT278A-REL	Manual releasing station (double-action)	Data Sheet: I#1277
RELA-EOL	Polarized end-of-line relay	Data Sheet: I#1277

SUBMIT

Signature Series

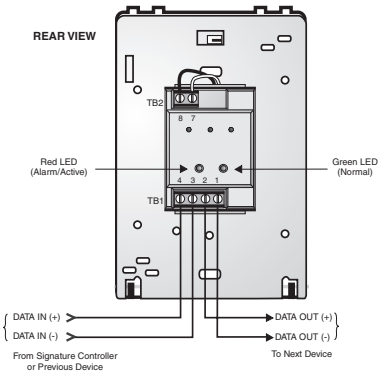
Manual Pull Stations



Signature Series manual pull stations are configured for Class B IDC operation. When the station's pull lever is operated, an alarm signal is sent to the loop controller. The alarm condition is latched at the station.

Single Action Pull Stations

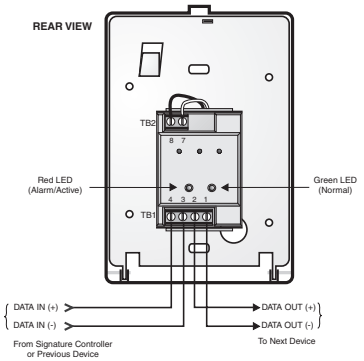
ADT-270 series manual pull stations are made from die-cast zinc and finished with red epoxy powder-coat paint. With positive pull-lever operation, one pull on the station handle breaks the rod and turns in a positive alarm. Where two-stage operation is required, ADT-270P pre-signal models are equipped with a general alarm (GA) keyswitch.



☐	ADT-270	One Stage Fire Alarm Station, English Markings	Data Sheet: I#1205
☐	ADT-270P	Two Stage (Pre-signal) Fire Alarm Station, English Markings	Data Sheet: I#1205
☐	276-K2	GA Key — for pre-signal station	Data Sheet: I#1205
☐	270-GLR	20 Break-rods — for ADT-270 series	Data Sheet: I#1205
☐	276B-RSB	Surface Mount Box, Red — for ADT-270 series	Data Sheet: I#1205

Double Action Pull Stations

The double action, single stage ADT-278 station is a contemporary style manual station made from durable red LEXAN. To initiate an alarm, first lift the upper door, then pull the alarm handle.



☐	ADT-278	Double Action (One Stage) Fire Alarm Station, English Markings	Data Sheet: I#1205
☐	276B-RSB	Surface Mount Box, Red — for ADT-278 series	Data Sheet: I#1205
☐	276-GLR	20 Break-rods — for ADT-278 series	Data Sheet: I#1205

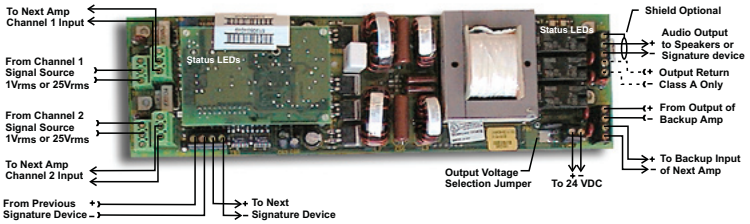
ADA Manual Station Relocator, p. 29; Stopper II, p. 29; Hazardous Location Pull Station, p. 42

SUBMIT

Signature Series

Amplifiers & Power Supplies

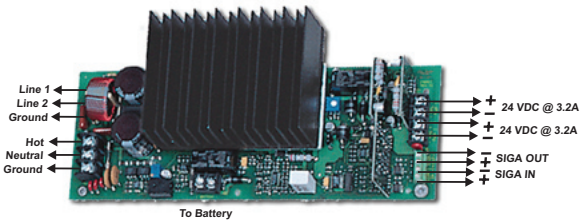
Audio Amplifiers


To Next Amp Channel 1 Input
From Channel 1 Signal Source 1Vrms or 25Vrms
From Channel 2 Signal Source 1Vrms or 25Vrms
To Next Amp Channel 2 Input
From Previous Signature Device
To Next Signature Device
Status LEDs
Status LEDs
Shield Optional
Audio Output to Speakers or Signature device
Output Return Class A Only
From Output of Backup Amp
To Backup Input of Next Amp
Output Voltage Selection Jumper
To 24 VDC

Signature Series amplifiers are high-efficiency switch mode audio amplifiers available in 30 and 50 watt sizes. Amplifiers have two input channels supporting dual channel or single channel audio applications. Signature amplifiers are ideally suited for distributed audio applications and small centrally banked applications. The audio output is configurable as 25VRMS or 70VRMS in Class B or Class A wiring configurations. Speakers can connect directly to the output of the amplifier or the amplifier output can run as an audio riser to Signature modules where speaker zone selection is made. Each amplifier has a built-in 1kHz tone generator and provision for a back up amplifier. On-board status LEDs provide quick visual indication of amplifier status.

SIGA-AA30	30 Watt Intelligent Audio Amplifier	Data Sheet: I#1164
SIGA-AA50	50 Watt Intelligent Audio Amplifier	Data Sheet: I#1164

Auxiliary Power Supplies



The SIGA-APS is a switch-mode power supply that provides additional power for any fire alarm control panel that includes a Signature Data Circuit. The SIGA-APS mounts with local fire alarm equipment or may be mounted remotely to supply power to signaling devices, amplifiers or system equipment. The power supply communicates with the main control panel over the Signature Data Circuit. This eliminates the need to mount additional monitoring equipment when the power supply is mounted remote from the main control panel.

SIGA-APS	Intelligent Auxiliary Power Supply — 120Vac 50/60Hz	Data Sheet: I#1176
SIGA-APS-220	Intelligent Auxiliary Power Supply — 220Vac 50/60Hz	Data Sheet: I#1176

Input/output modules, p. 20; System Power Supplies, p. 8; Network Audio p. 6.

SUBMIT

Signature Series

Accessories

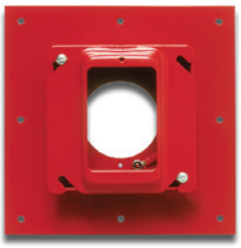
Signature Detector Guard

Constructed of sturdy 16-guage steel, the SIGA-DG Smoke Detector Guard is designed to protect ADT-IPHS 4D and ADT-PS smoke detectors from damage or tampering. The advanced computer-designed louver system allows smoke detectors to be installed at their listed spacing and has no effect on operating sensitivity.

SIGA-DG	Smoke Detector Guard	Data Sheet: I#1263
SIGA-DGSB	Detector Guard Surface Mount Accessory	Data Sheet: I#1263

Detector Mounting Plate

The SIGA-DMP Detector Mounting Plate is a 7-inch (178mm) square mounting plate designed to provide convenient mounting of Signature Series intelligent smoke detectors in raised floor or plenum applications. The detector mounting plate may also be installed in low velocity ducts that have a maximum width of up to 36-inches (915mm) and a maximum height of up to 36-inches (915mm).



SIGA-DMP	Detector Mounting Plate	Data Sheet: I#1213

Remote LED

The remote LED connects to the SIGA-SB or SIGA-SB4 Standard Base. It features a North American size one-gang plastic faceplate with a white finish and red alarm LED.

SIGA-LED	Remote Alarm LED	Data Sheet: I#1206

Trim Skirt

Use the SIGA-TS Trim Skirt to give Signature detectors a finished look and hide surface imperfections around the detector's base. Supplied with all four-inch detector bases, the SIGA-TS4 can also be ordered separately. Use the black model with SIGA-IPHSB.

SIGA-TS	Detector Trim Skirt (white)	Data Sheet: I#1206
SIGA-TSB	Detector Trim Skirt (black)	Data Sheet: I#1206
SIGA-TS4	Detector Trim Skirt (white) – for 4-inch box	Data Sheet: I#1206

Detectors, p. 18; Detector Bases, p. 19

SUBMIT

Manual Station Relocator

The Manual Station Relocator is designed to lower the height of a fire alarm pull station to meet ADA requirements. Most existing pull stations are mounted 60 inches (1524mm) or higher above the floor. The Relocator lowers the height to 48 inches (1220mm) without the need for pulling new wires or moving the existing electrical box.

RR-32RL	Pull Station Relocator	Data Sheet: I#1266 ☐

Stopper II

This unique device helps prevent false alarms without restricting legitimate ones. It consists of a tamper-proof clear LEXAN polycarbonate shield and frame that fits easily over manual pull stations. When lifted, it sounds a piercing warning horn.

☐ STI-1100 (Flush)	☐ STI-1130 (Surface)	Stopper II with Horn	Data Sheet: I#1265 ☐
☐ STI-1200 (Flush)	☐ STI-1230 (Surface)	Stopper II without Horn	Data Sheet: I#1265 ☐
☐ STI-3100 (2" Spacer)	☐ STI-3004 (Conduit Insert)	Spacers	Data Sheet: I#1265 ☐
☐ STI-3002 (Gasket)	☐ STI-3003 (Conduit Gasket)	Weatherproofing	Data Sheet: I#1265 ☐

Detectors, p. 18; Manual Pull Stations, p. 26

SUBMIT

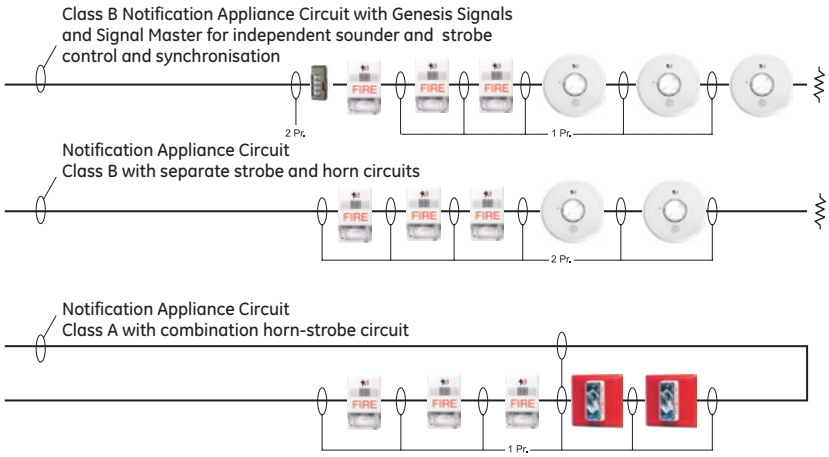
Wall Horns, Strobes and Chimes p. 33
Wall Speakers and Speaker/strobes p. 34
Signal Master p. 35
Ceiling Horns, Speakers and Strobes p. 35
Harsh Environment Signals p. 36
Audible Signals p. 37
Audio System p. 38
Firefighers' Telephones p. 39
Bell Strobe Plates p. 40
Mounting Accessories p. 40

Notification Appliances

ADT notification appliances are high-performance devices finely tuned to deliver maximum output in exchange for the lowest possible current draw. Covering the entire spectrum of life safety applications, these devices are durable, dependable, and virtually maintenance-free. And they support a wide range of mounting options that make them ideal for new construction and retrofit applications alike.

Typical Wiring

All notification appliances may be configured for Class A or Class B wiring. Genesis combination horn-strobes, when used with the innovative Signal Master Module, support independent horn control over a single pair of wires and precision synchronization that exceeds UL requirements. This reduces wiring time while meeting the requirements of even the most demanding application.


Class B Notification Appliance Circuit with Genesis Signals and Signal Master for independent sounder and strobe control and synchronisation
2 Pr.
1 Pr.
Notification Appliance Circuit
Class B with separate strobe and horn circuits
2 Pr.
Notification Appliance Circuit
Class A with combination horn-strobe circuit
1 Pr.

Visual & Audible Signals

ADT2000 visual/audible signals include a wide range of exquisitely engineered strobes in combination with horns, speakers, and chimes. The Genesis and Enhanced Integrity families of visual/audible signals feature UL 1971 listed strobes that exceed Americans with Disabilities Act (ADA) requirements. All ADT strobes are UL 1971 listed as visual signaling devices for the hearing impaired and surpass the latest UL sychronization requirements when used with a Signal Master accessory (see page 43) or the Signature Series Synchronization Output Module (see page 35).

Genesis strobes represent a breakthrough in visual signaling technology that provides outstanding light distribution characteristics in a sleek low-profile design. Enhanced Integrity devices offer a full range of indoor and outdoor, and wall and ceiling rated options, including strobes in combination with horns, speakers and chimes.

Genesis Strobes and horns, p. 41

Genesis Speakers, p. 42

Genesis ceiling horns, strobes & speakers, p. 41

Harsh environment signals, p. 44

A complete line of audible and visible signals...

Strobe Intensity	15/75 cd				15 cd			30 cd				75 cd				95 cd		110 cd				115 cd		150 cd		177 cd	
Application	Wall	Ceiling	Indoor	Outdoor	Wall	Ceiling	Indoor	Wall	Ceiling	Indoor	Outdoor	Wall	Ceiling	Indoor	Outdoor	Wall	Ceiling	Wall	Ceiling	Indoor	Outdoor	Wall	Ceiling	Wall	Ceiling	Wall	Ceiling
Genesis Strobe	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓			✓		✓		✓
Genesis Horn-Strobe	✓		✓		✓		✓	✓		✓		✓		✓				✓	✓	✓			✓		✓		✓
Genesis Speaker-Strobe		✓				✓			✓				✓				✓		✓				✓		✓		✓
Genesis Chime-Strobe					✓		✓	✓		✓		✓		✓				✓		✓							
Integrity Strobe	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓				✓		✓	✓						
Integrity Horn-Strobe	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓		✓	✓			✓		✓	✓						
Integrity Speaker-Strobe	✓		✓	✓				✓		✓	✓	✓		✓	✓			✓		✓	✓						
Integrity Bell-Strobe	✓		✓		✓		✓	✓		✓								✓		✓							

Signals must be installed in accordance with applicable codes, standards and local authority having jurisdiction.

Genesis Series

Wall Strobes, Horns & Chimes

SUBMIT

The Genesis line of signals are among the smallest, most compact audible-visible emergency signaling devices in the world. About the size of a deck of playing cards, these devices are designed to blend with any decor.

Genesis signals feature textured housings in architecturally neutral white or traditional fire red. An ingenious iconographic symbol indicates the purpose of the device. This universal symbol is code-compliant and is easily recognized by all building occupants regardless of what language they speak. models with “FIRE” markings are also available.

Genesis strobes offer 15 to 110 candela output, which is selectable with a conveniently-located switch on the side of the device. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering.

ADTG1-VM	Strobe (selectable 15, 30, 75, or 110 cd output), white	Data Sheet: I#1511
ADTG1R-VM	Strobe (selectable 15, 30, 75, or 110 cd output), red	Data Sheet: I#1511
ADTG1F-V1575	Strobe (fixed 15/75 cd output), white	Data Sheet: I#1511
ADTG1RF-V1575	Strobe (fixed 15/75 cd output), red	Data Sheet: I#1511

Genesis Horns and Horn-strobes reach output levels as high as 99 dB and features a unique multiple frequency tone that results in excellent wall penetration and an unmistakable warning of danger. Horns may be configured for either coded or non-coded signal circuits. They can also be set for low dB output with a jumper cut that reduces horn output by about 5 dB.

ADTG1-HDVM	Horn-Strobe (15, 30, 75, or 110 cd output, high or low dB), white	Data Sheet: I#1511
ADTG1R-HDVM	Horn-Strobe (15, 30, 75, or 110 cd output, high or low dB), white	Data Sheet: I#1511
ADTG1F-HDV1575	Horn-Strobe (fixed 15/75 cd output, high or low dB), white	Data Sheet: I#1511
ADTG1RF-HDV1575	Horn-Strobe (fixed 15/75 cd output, high or low dB), red	Data Sheet: I#1511
ADTG1-HD	Temporal Horn (high or low dB output), white	Data Sheet: I#1511
ADTG1R-HD	Temporal Horn (selectable high or low dB output), red	Data Sheet: I#1511
ADTG1-P	Steady Horn (not compatible with Genesis Signal Master), white	Data Sheet: I#1511
ADTG1R-P	Steady Horn (not compatible with Genesis Signal Master), red	Data Sheet: I#1511

Genesis chimes and chime-strobes produce a pleasing mellow tone. When steady (non-stroked) voltage is applied, the chime automatically pulses at 60 strokes per minute, or may be field-configured for temporal output. When installed with a GIM Signal Master Module, the chime may also be field-configured for coded operation, which enables the chime output to match the rate that voltage is applied to the circuit. The chime’s 79 dBA (peak) output level makes this device suitable for many applications. Chimes may be set for low dB output with a jumper cut that reduces sound output by about 5 dB.

ADTG1-CVM	Genesis Chime-Strobe (15, 30, 75, or 110 cd output, high or low dB), white	Data Sheet: I#1518
ADTG1R-CVM	Genesis Chime-Strobe (15, 30, 75, or 110 cd output, high or low dB), red	Data Sheet: I#1518
ADTG1-C	Genesis Chime (selectable high or low dB output), white	Data Sheet: I#1518
ADTG1R-C	Genesis Chime (selectable high or low dB output), red	Data Sheet: I#1518

Optional trim plates available in red and white

Housings with optional “FIRE” markings

To specify housings with “FIRE” markings, insert an “F” before the hyphen in the model number. For submittal purposes, write an “F” in the Submit box instead of placing a checkmark there.

ADTG1T-FIRE	Genesis Trim Plate (for 2-gang or 4” square boxes) with “FIRE” markings, white	Data Sheet: I#1511
ADTG1RT-FIRE	Genesis Trim Plate (for 2-gang or 4” square boxes) with “FIRE” markings, red	Data Sheet: I#1511

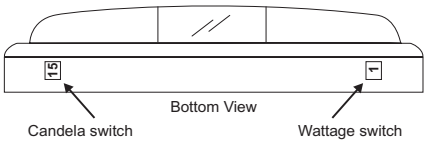
SUBMIT

Genesis Series

Wall Speakers and Speaker-strobes

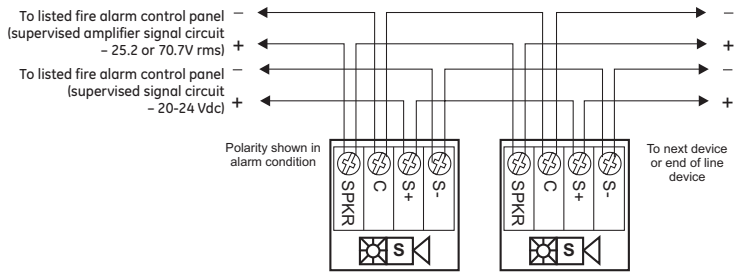
Genesis speakers include a DC blocking capacitor to allow electrical supervision of the audio distribution circuit. Models for 25 V_{RMS} and 70 V_{RMS} circuits are available. The mylar speaker with its sealed back construction provides extra durability and improved audibility. ¼ W to 2 W operation is selectable with a conveniently-located switch on the bottom of the device.

Speaker-strobes feature 15, 30, 75 or 110 candela output, selectable with a conveniently-located switch on the bottom of the device.



Candela and wattage settings remain clearly visible even after final installation.

#18 - #12 AWG terminals – ideal for long runs, existing wiring


To listed fire alarm control panel (supervised amplifier signal circuit – 25.2 or 70.7V rms)
To listed fire alarm control panel (supervised signal circuit – 20-24 Vdc)
Polarity shown in alarm condition
SPKR
C
S+
S-
S
To next device or end of line device

Genesis speakers are available with white or red housings and with or without FIRE markings.

Genesis Speakers and speaker-strobes

☐	☐ADTG4-S2 (white)	☐ADTG4R-S2 (red)	Multi-wattage 25 Volt Speaker	Data Sheet: I#1458
☐	☐ADTG4-S2VM (white)	☐ADTG4R-S2VM (red)	Multi-candela/wattage 25 Volt Speaker-strobe	Data Sheet: I#1458
☐	☐ADTG4F-S2V1575 (white)	☐ADTG4RF-S2V1575 (red)	15/75 cd, multi-wattage 25 Volt Speaker-strobe	Data Sheet: I#1458
☐	☐ADTG4-S7 (white)	☐ADTG4R-S7 (red)	Multi-wattage 70 Volt Speaker	Data Sheet: I#1458
☐	☐ADTG4-S7VM (white)	☐ADTG4R-S7VM (red)	Multi-candela/wattage 70 Volt Speaker-strobe	Data Sheet: I#1458
☐	☐ADTG4B (white)	☐ADTG4RB (red)	Surface mount box	Data Sheet: I#1458
☐	☐ADTG4F-S7V1575 (white)	☐ADTG4RF-S7V1575 (red)	15/75 cd, multi-wattage 70 Volt Speaker-strobe	Data Sheet: I#1458

All speakers feature selectable ¼, ½, 1, or 2 watt operation. Multi-candela strobes feature 15, 30, 75, or 110 candela output. 15/75 cd models are available with FIRE markings only.

SUBMIT

Genesis Series

Ceiling Speakers, Horns, and Strobes

Select 15/30/75/95 and 95/115/150/177 candela output!

Select ¼, ½, 1, or 2 watt operation!

The new Genesis line of multi-candela and multi-wattage ceiling signals feature all the hallmarks that have made Genesis products a big hit with designers, engineers, building owners, and installers everywhere. ADT's exclusive FullLight technology, precision timing electronics, and low current draw bring the benefits of the popular Genesis wall-mount models to ceiling applications. These signals are 30 per cent slimmer than comparable signals on the market. They are compatible with standard 4-inch (10 cm) square electrical boxes and don't require extension rings or trim plates. No mounting screws are visible when the unit is installed, providing a clean, finished, unobtrusive appearance that blends with any decor. These signals are also listed for wall mount applications.

White Field configurable Speaker-Strobes may be ordered with or without "FIRE" marking. Red Speaker-Strobes come with "FIRE" marking.

White housing no "FIRE"	White housing with "FIRE"	Red housing with "FIRE"			
☐ADTGC-S2	☐ADTGCF-S2	☐ADTGCFR-S2	Multi-wattage 25 V Speaker	Data Sheet: I#1512	☐
☐ADTGC-S7	☐ADTGCF-S7	☐ADTGCFR-S7	Multi-wattage 70 V Speaker	Data Sheet: I#1512	☐
☐ADTGC-S2VM	☐ADTGCF-S2VM	☐ADTGCFR-S2VM	Multi-cd/wattage 25 V Spkr-strobe	Data Sheet: I#1513	☐
☐ADTGC-S2VMH	☐ADTGCF-S2VMH	☐ADTGCFR-S2VMH	Multi High-cd/wattage 25 V Spkr-strobe	Data Sheet: I#1513	☐
☐ADTGC-S7VM	☐ADTGCF-S7VM	☐ADTGCFR-S7VM	Multi-cd/wattage 70 V Spkr-strobe	Data Sheet: I#1513	☐
☐ADTGC-S7VMH	☐ADTGCF-S7VMH	☐ADTGCFR-S7VMH	Multi High-cd/wattage 70 V Spkr-strobe	Data Sheet: I#1513	☐
☐ADTGC-VM	☐ADTGCF-VM	☐ADTGCFR-VM	Multi-cd Strobe	Data Sheet: I#1514	☐
☐ADTGC-VMH	☐ADTGCF-VMH	☐ADTGCFR-VMH	Multi High-cd Strobe	Data Sheet: I#1514	☐
☐ADTGC-HDVM	☐ADTGCF-HDVM	☐ADTGCFR-HDVM	Multi-cd Horn-Strobe	Data Sheet: I#1515	☐
☐ADTGC-HDVMH	☐ADTGCF-HDVMH	☐ADTGCFR-HDVMH	Multi High-cd Horn-Strobe	Data Sheet: I#1515	☐

All speakers feature selectable ¼, ½, 1, or 2 watt operation. All horns feature high or low dB output.
Multi-Candela Strobes feature 15, 30, 75, or 95 candela output. Multi High-Candela Strobes feature 95, 115, 150, or 177 candela output.

Signal Master

The Signal Master is a simple-to-use accessory that adds enhanced features to Genesis and Integrity strobes and Horn-Strobes. It is a dual-purpose module that provides UL 1971 required precision synchronization for connected Integrity and Genesis strobes, and independent control for connected Genesis Horns over a single pair of wires. Two methods of Horn control are available: traditional Horn silence; or, normally-closed contact. Both methods may be used to silence Horns without turning off strobes on the same circuit. Two models are available. The Genesis "piggyback" model doesn't require a separate electrical box. It simply snaps to the back of the first ADTG1 signal on the circuit. The remote mount model mounts in a North American 2½ inch (64 mm) deep one-gang box.

Snap-on (piggyback) model

Remote 1-gang mount model

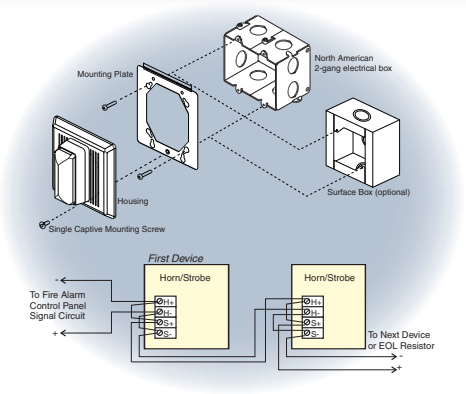
ADTG1M	Genesis Signal Master – Snap-on (piggyback)	Data Sheet: I#1278	☐
ADTG1M-RM	Genesis Signal Master – Remote 1-Gang Mount	Data Sheet: I#1278	☐

Remote Booster Power Supply, p. 8; SIGA-AB4G Audible Sounder Base, p. 19.

SUBMIT

Enhanced Integrity Series

Harsh Environment Signals



All Enhanced Integrity devices are UL 1971 listed for both wall and ceiling orientation. Enhanced Integrity strobes meet the latest UL1971 synchronization requirements when used with the ADTG1M Signal Master. Integrity devices are shipped with wall mount style “FIRE” lens markings. Other lens markings are available.

Temporal Horns and Horn-Strobes

During installation, the Horn is configured for steady or temporal tone signal. When temporal output is selected, all Horns on a common two-wire circuit are self-synchronized. Integrity Series Horns emit a low frequency “growling” tone that demands attention. Horns can be configured for either high output (98 dBA) or low output (94 dBA); and are listed for outdoor use.

☐ 757-1A-T (Red)	☐ 757-1A-TW (White) Temporal Horn	Data Sheet: I#1239
☐ 757-7A-T (Red)	☐ 757-7A-TW (White) Temporal Horn-Strobe, 15/75cd	Data Sheet: I#1239
☐ 757-4A-T (Red)	☐ 757-4A-TW (White) Temporal Horn-Strobe, 75cd	Data Sheet: I#1239
☐ 757-8A-T (Red)	☐ 757-8A-TW (White) Temporal Horn-Strobe, 110cd	Data Sheet: I#1239

4” Square Box Mount Strobes

405 Series strobes are self-synchronized to flash at one fps across their full operating voltage range. UL 1971 synchronization requirements are achieved when used with the ADTG1M Signal Master (see page 43). Strobes must be connected to signal circuits that output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision. 405 Series strobes are suitable for outdoor use and installed to a standard four-inch square electrical box.

☐ 405-5A-T (Red)	☐ 405-5A-TW (White)	Strobe - 15 cd	Data Sheet: I#1237
☐ 405-7A-T (Red)	☐ 405-7A-TW (White)	Strobe - 15/75	Data Sheet: I#1237
☐ 405-3A-T (Red)	☐ 405-3A-TW (White)	Strobe - 30 cd	Data Sheet: I#1237
☐ 405-6A-T (Red)	☐ 405-6A-TW (White)	Strobe - 60 cd	Data Sheet: I#1237
☐ 405-8A-T (Red)	☐ 405-8A-TW (White)	Strobe - 110 cd	Data Sheet: I#1237
☐ CS-405-7A-T (15/75 cd)	☐ CS-405-8A-T (110 cd)	Strobe - Weatherproof (red)	Data Sheet: I#1237

Re-Entrant Speakers and Speaker-Strobes

Re-entrant speakers feature a sealed, high efficiency compression driver that’s both weatherproof and vermin proof. This makes them ideal for public places and outdoor areas such as parking garages and transport terminals. All Integrity speakers include a DC Blocking Capacitor that permits electrical supervision of the audio distribution circuit. Models for 25V$_{RMS}$ and 70V$_{RMS}$ circuits are available.

☐ 757-1A-R25 (Red)	☐ 757-1A-R25W (White)	25 V Re-entrant Speaker	Data Sheet: I#1244
☐ 757-7A-RS25 (Red)	☐ 757-7A-RS25W (White)	25 V Re-entrant Speaker-Strobe, 15/75cd	Data Sheet: I#1244
☐ 757-4A-RS25 (Red)	☐ 757-4A-RS25W (White)	25 V Re-entrant Speaker-Strobe, 75cd	Data Sheet: I#1244
☐ 757-3A-RS25 (Red)	☐ 757-3A-RS25W (White)	25 V Re-entrant Speaker-Strobe, 30cd	Data Sheet: I#1244
☐ 757-8A-RS25 (Red)	☐ 757-8A-RS25W (White)	25 V Re-entrant Speaker-Strobe, 110cd	Data Sheet: I#1244
☐ 757-1A-R70 (Red)	☐ 757-1A-R70W (White)	70 V Re-entrant Speaker	Data Sheet: I#1244
☐ 757-7A-RS70 (Red)	☐ 757-7A-SS70W (White)	75 V Re-entrant Speaker-Strobe, 15/75cd	Data Sheet: I#1244
☐ 757-4A-RS70 (Red)	☐ 757-4A-SS70W (White)	75 V Re-entrant Speaker-Strobe, 75cd	Data Sheet: I#1244
☐ 757-3A-RS70 (Red)	☐ 757-3A-RS70W (White)	75 V Re-entrant Speaker-Strobe, 30cd	Data Sheet: I#1244
☐ 757-8A-RS70 (Red)	☐ 757-8A-RS70W (White)	75 V Re-entrant Speaker-Strobe, 110cd	Data Sheet: I#1244

SUBMIT

Audible Signals

Fire Alarm Bells

ADT fire alarm bells are of the underdome type with heavy-duty mechanisms. Gongs are made of selected alloy steel to generate the loud, resonant tones. For weatherproof application, optional surface weatherproof backboxes are available.

☐323D-10AW (Grey)	☐323D-10AR (Red)	10-inch Single Stroke, Diode — 20-24Vdc	Data Sheet: I#1252 ☐
☐ 439D-6AW (Grey)	☐439D-6AR (Red)	6-inch Vibrating, Diode — 20-24Vdc	Data Sheet: I#1252 ☐
☐439D-10AW (Grey)	☐439D-10AR (Red)	10-inch Vibrating, Diode — 20-24Vdc	Data Sheet: I#1252 ☐

Multiple Tone Signal

The 5530MD-24AW is a weatherproof heavy-duty industrial, tone-selectable, signaling device capable of producing volume-controlled, high-decibel tones. It uses a microprocessor circuit to create 27 distinctive tones. A single tone may be selected by setting a miniature dip switch within the unit.

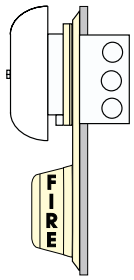
5530MD-24AW	27-Tone Selectable Signal — 24Vdc	Data Sheet: I#1460 ☐

SUBMIT

Accessories

Bell/Strobe Plate

The bell/strobe plate is ideal for renovation and retrofit projects, and new construction. It is equipped with an ADT self-synchronizing strobe and is designed to allow on-site mounting of the 439 series Vibrating Bell, providing instant conversion to Bell/Strobe audible/visual signal appliances. The strobe is designed for 20 to 24Vdc operation and must be connected to signal circuits which output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision.



☐ 403-5A-R (15 cd) ☐ 403-7A-R (15/75 cd) ☐ 403-3A-R (30 cd) ☐ 403-8A-R (110 cd) Data Sheet: I#1253

Integrity Lens Marking Kits

Integrity strobes are shipped with wall mount style “FIRE” lens markings. Where ceiling mount, other languages or different lens markings are required, optional LKW and LKC series Lens Marking Kits are available. Lens marking sleeves snap right over the strobe lens providing a quick, easy, change.

☐ LKW-1R (Wall orientation) “FIRE” (Red)
☐ LKW-1 (Wall orientation) ☐ LKC-1 (Ceiling orientation) “FIRE”
☐ LKW-2 (Wall orientation) ☐ LKC-2 (Ceiling orientation) “FEU”
☐ LKW-3 (Wall orientation) ☐ LKC-3 (Ceiling orientation) “FIRE/FEU”
☐ LKW-4 (Wall orientation) ☐ LKC-4 (Ceiling orientation) “SMOKE”
☐ LKW-5 (Wall orientation) ☐ LKC-5 (Ceiling orientation) “HALON”
☐ LKW-6 (Wall orientation) ☐ LKC-6 (Ceiling orientation) “CO2”
☐ LKW-7 (Wall orientation) ☐ LKC-7 (Ceiling orientation) “EMERGENCY”
☐ LKW-8 (Wall orientation) ☐ LKC-8 (Ceiling orientation) “ALARM”
☐ LKW-9 (Wall orientation) ☐ LKC-9 (Ceiling orientation) “FUEGO”

Mounting Accessories

Integrity Temporal Horn, Horn/strobe
- ❑ 757A-SB Surface Box, Red, Indoor
- ❑ 757A-SBW Surface Box, White, Indoor
- ❑ 757A-WB Weatherproof Box, Red, Surface
- ❑ 757A-WBW Weatherproof Box, White, Surface
- ❑ 757A-BDF Bi-directional Frame, Red
- ❑ 757A-BDFW Bi-directional Frame, White
- ❑ 757A-RR2 Two-gang Retrofit Ring, Red
- ❑ 757A-RR2W Two-gang Retrofit Ring, White

Integrity Speakers, Speaker/strobes
- ❑ 960A-4SF Flush Box, Indoor
- ❑ 757A-SB Surface Box, Red, Indoor
- ❑ 757A-SBW Surface Box, White, Indoor
- ❑ 757A-BDF Bi-directional Mounting Frame, Red
- ❑ 757A-BDFW Bi-directional Mounting Frame, White
- ❑ 757A-RR Four-inch Retrofit Ring, Red
- ❑ 757A-RRW Four-inch Retrofit Ring, White

Integrity Re-entrant speakers, Speaker/strobes
- ❑ 960A-4SF Flush Box, Indoor
- ❑ 757A-SB Surface Box, Red, Indoor
- ❑ 757A-SBW Surface Box, White, Indoor
- ❑ 757A-WB Weatherproof Box, Red, Surface
- ❑ 757A-WBW Weatherproof Box, White, Surface
- ❑ 757A-BDF Bi-directional Mounting Frame, Red
- ❑ 757A-BDFW Bi-directional Mounting Frame, White

Integrity Chimes, Chime/strobes
- ❑ 757A-SB Surface Box, Red, Indoor
- ❑ 757A-SBW Surface Box, White, Indoor
- ❑ 757A-BDF Bi-directional Mounting Frame, Red
- ❑ 757A-BDFW Bi-directional Mounting Frame, White

Genesis® Signals
- ❑ 27193-11 Horn-strobe Surface Box, Red, Indoor
- ❑ 27193-16 Horn-strobe Surface Box, White, Indoor
- ❑ ADTG4RB Speaker Surface Box, Red, Indoor
- ❑ ADTG4B Speaker Surface Box, White, Indoor

8-inch Square Speakers
- ❑ 960A-8SF Square Flush Box, Indoor
- ❑ 960A-8SS Square Surface Box, Indoor

8-inch Round Speakers
- ❑ 960A-8RF Round Flush Box, Indoor

4-inch Round Speakers
- ❑ 960A-4RF Round Flush Box, Indoor

Horn/siren Combination
- ❑ 349 Weatherproof Backbox

Fire Alarm Bells and CS-405 Series
- ❑ 449 Weatherproof Backbox

Genesis ADTG4B Speaker Surface Box

SUBMIT

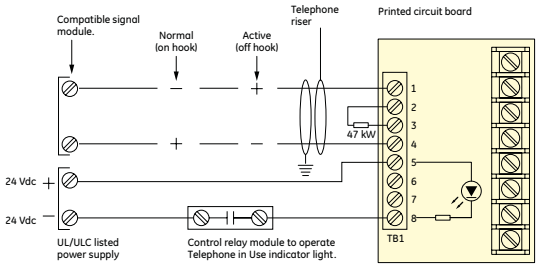
Firefighters' Telephones

Firefighters' telephones are typically installed in corridors, lobbies, mechanical rooms, stairways, or other stategic locations. When lifted from its cradle, or plugged into a suitable wall jack, the handset activates audible and visible signals at the ADT2000 control panel.

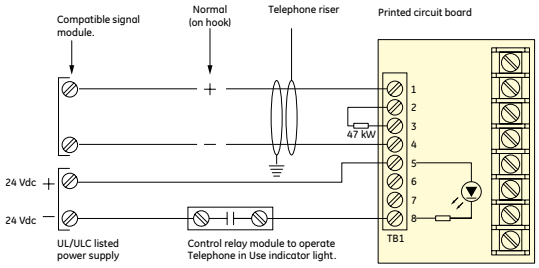
ADT fire alarm telephones are rugged communications devices for emergency use. Enclosed keylocked telephone stations comprise three separately ordered components: the handset assembly, the frontplate, and the wallbox. Depending on how the phones are wired, they are supervised for three or four state operation. Frontplates are available with either metal or break glass inserts.

MEA approved warden stations feature doors with magnetic latches and one-state handsets with armoured cords. Warden stations mount to 6832-1 wallboxes. Portable handsets plug into one-gang receptacles. Handsets are available in black or red. The TCS-6 cabinet provides storage for up to six handsets.

Four-state operation



Three-state operation



6830-NY-S

6831-1

6831-4

6832-1

6830-1

6833-1
6830-3

Firefighters' Telephones

6830-NY-F4	Four-state Remote Telephone Warden Station - Flush. Armored armored cord.
6830-NY-S4	Four-state Remote Telephone Warden Station - Surface. Armored armored cord.
6830-NY-F	Remote Telephone Warden Station - Flush. Armored cord.
6830-5A-4	Four-state Telephone Handset Assembly - Red, 60" (1500mm) Coiled Cord, Push-to-talk button.
6830-6A-4	Four-state Telephone Handset Assembly - Red, 60" (1500mm) Armored Cord, Push-to-talk button.
6830-1	Telephone Handset Assembly - Red c/w 60" (1500mm) Coiled Cord.
6830-4	Four-state Telephone Handset Assembly - Red, 60" (1500mm) Coiled Cord.
6830-5A	Three-state Telephone Handset Assembly - Red, 60" (1500mm) Coiled Cord, Push-to-talk button.
6830-6A	Three-state Telephone Handset Assembly - Red, 60" (1500mm) Armored Cord, Push-to-talk button.
6833-4	Four-state Portable Telephone Handset Receptacle, 1-gang Stainless-steel Faceplate.
6833-1	Portable Telephone Handset Receptacle, 1-gang Stainless-steel Faceplate.
6830-3	Portable Telephone Handset - Black c/w 60" (1500mm) Coiled Cord.
6700-0061	Portable Telephone Handset - Red c/w 60" (1500mm) Coiled Cord.
6831-1	Frontplate - Flush Mount, Red Finish, Break Glass Type c/w 2 keys.
6831-2	Frontplate - Flush Mount, Red Finish, Non-Break Glass Type c/w 2 keys.
6831-3	Frontplate - Surface Mount Red Finish, Break Glass Type c/w 2 keys.
6831-4	Frontplate - Surface Mounting Red Finish, Non-Break Glass Type c/w 2 keys.
6832-1	Wallbox - Flush or Surface mount, Red finish. 14" (356mm) H x 8-1/2" (216mm) W x 3½" (89mm) D.
TCS-6	Portable handset storage cabinet. Surface mount c/w keylock. Red finish with white lettering.

SUBMIT

Heat Detectors p. 42
Fire Alarm Station p. 42
Strobes, Bells and Horns p. 43

Hazardous Location Devices

ADT hazardous location devices provide reliable life safety protection and emergency signaling in areas where atmospheres could become harsh or explosive. All hazardous location devices are UL rated under the full range of classifications set out in the National Electrical Code.

The following classification definitions are an interpretive summary based on the 1996 edition of the National Electrical Code (NEC, NFPA 70). Refer to the latest editions of NFPA 497M, NFPA 70 and the UL Hazardous Location Equipment Directory for current and more detailed information. For more information on NEMA classifications, refer to NEMA Standards Publication No. 250.

Hazardous Location Classifications

Classes

Class I - Hazardous Gases. Class I locations are areas in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

Typical Class I Hazardous Areas
- Spray painting and finishing areas
- Utility gas plants
- Petroleum refining production plants
- Petroleum dispensing locations
- Dry cleaning facilities
- Dip tanks containing combustibles or flammable liquids
- Plant facilities extracting solvents
- Inhalation anesthetics areas
- Process facilities manufacturing pyroxylin type plastics

Class II - Hazardous Dusts. Class II locations represent areas that are hazardous due to the presence of combustible dust.

Typical Class II Hazardous Areas
- Flour mills
- Feed mills
- Grain elevators and grain handling facilities
- Aluminum manufacturing and storage areas
- Magnesium manufacturing and storage areas
- Coal preparation and handling facilities
- Starch manufacturing and storage areas
- Confectionery plants
- Pulverizer sugar and cocoa manufacturing, and storage plants
- Spice grinding and storage plants

Class III - Hazardous Fibers. Class III locations have easily ignitable fibers or flyings present, but not likely to be suspended in air in quantities sufficient to produce ignitable mixtures in the atmosphere.

Typical Class III Hazardous Areas
- Textile mills
- Woodworking plants*
- Furniture manufacturers*
- Cotton gins
- Cotton seed milling plants
- Flax plants
- Carpet manufacturers

** Except if wood flour (dust), which is Class II Group G, is present*

Divisions

The Location Classes are broken down by the NFPA into Divisions 1 and 2, defining different levels of risk. In general, the risk of there being a hazardous presence of flammable/combustible/ignitable materials is higher for Division 1 than for Division 2. The specifics differ between the three classes (I, II and III). Equipment suitable for Division 1 is also suitable for Division 2 locations.

Groups

Class I and II locations are divided by the NFPA into Group designations identifying specific gases, vapors and dusts by characteristic similarities that relate to specific equipment construction requirements. Class III locations are not divided into separate group designations.

Class I Groups

Group A. Atmospheres containing acetylene.

Group B. Atmospheres containing hydrogen, fuel and combustible process gases containing more than 30 percent hydrogen by volume, or gases or vapors of equivalent hazard such as butadiene, ethylene oxide, propylene oxide, and acrolein.

Group C. Atmospheres such as ethyl ether, ethylene, or other gases or vapors of equivalent hazard.

Group D. Atmospheres containing acetone, ammonia, benzene, butane, cyclopropane, ethanol, gasoline, hexane, methanol, methane, natural gas, naphtha (petroleum), propane, or gases or vapors of equivalent hazard.

Class II Groups

Group E. Atmospheres containing combustible metal dusts, including aluminum, magnesium, and their commercial alloys, or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in the use of electrical equipment.

Group F. Atmospheres containing combustible carbonaceous dusts, including carbon black, charcoal, coal, or dusts that have been sensitized by other materials so that they present an explosion hazard.

Group G. Atmospheres containing combustible dusts not included in Group E or F, including flour, grain, wood, plastic, and chemicals.

SUBMIT

Initiating Devices

Rate Compensation Heat Detectors

Surface Mount

Box mount

Series 302 heat detectors are designed for use in normal environments as well as environments where the detectors are subject to weather, moisture (internal condensation), and explosive atmospheres. They are normally-open devices designed to close an electrical circuit upon activation. All models feature rate compensation and are available with either 135 °F (57.2 °C) or 194 °F (90 °C) ratings. They are self restoring, hermetically sealed, shock and corrosion resistant, and are tamperproof.

Sensors rated at 135 °F (57.2 °C) will not respond to momentary temperature fluctuations less than 30 °F/minute between 60 °F (16 °C) and 100 °F (38 °C). Sensors rated at 194°F (90 °C) will not respond to momentary temperature fluctuations less than 50 °F/minute between 60 °F (16 °C) and 150 °F (66 °C). 302 Series sensors should not be used in environments where conditions exceed these parameters. Do not install them in hot air ducts, in front of heaters, in paint booths that use heat to cure paint, or any other location subject to temperature fluctuation.

Sensor's Rated Temperature	Minimum Ambient Air Temperature	Maximum Ceiling Temperature
135 °F (57.2 °C)	-40 °F (-40 °C)	100 °F (38 °C)
194 °F (90 °C)	-40 °F (-40 °C)	150 °F (66 °C)

The sensor's aluminum tube acts as a heat collector when sources of heat radiate directly on the tube. Install these sensors out of direct sunlight and away from radiating heat sources including the direct flow from heaters and heat ducts.

☐	302-AW-135	All-weather Heat Detector - Vertical Mounting FM & UL, 135 °F (57.2 °C)	Data Sheet I#1591-00
☐	302-AW-194	All-weather Heat Detector - Vertical Mounting FM & UL, 194°F (90 °C)	Data Sheet I#1591-00
☐	302-ET-135	All-weather Heat Detector - Vertical, Box Mount (½" NPT), FM & UL, 135 °F (57.2 °C)	Data Sheet I#1591-00
☐	302-ET-194	All-weather Heat Detector - Vertical, Box Mount (½" NPT), FM & UL, 194°F (90 °C)	Data Sheet I#1591-00
☐	302-EPM-135	Heat Detector - Explosionproof Mounting UL (Not FM approved), 135 °F (57.2 °C)	Data Sheet I#1591-00
☐	302-EPM-194	Heat Detector - Explosionproof Mounting UL (not FM approved), 194°F (90 °C)	Data Sheet I#1591-00
☐	AP-P	Adaptor plate for mounting 302 and 302-AW to any 3" box or 4" octagon outlet box	Data Sheet I#1591-00
☐	STONCO27	3 ½" Weatherproof, round backbox and cover	Data Sheet I#1591-00
☐	JALX11	Explosion proof outlet body with cover - Killark	Data Sheet I#1591-00

Hazardous location fire alarm station

The XAL-53 is an extremely rugged double-action fire alarm station suitable for hazardous locations. The device is activated by lifting the front cover and pulling down the ring. This two-step process prevents unintentional operation.

☐	XAL-53	Hazardous Location Fire Alarm Station	Catalog Sheet: I#1231

SUBMIT

Notification Appliances

Hazardous Location Strobes

- Class I, II, or III locations

116DEXSTC-FJ hazardous location strobes are in-rush current limited life safety signaling appliances designed for installation in hazardous environments. Rigid specifications and state-of-the-art technology provide for high visual output and low maintenance. When pendant, wall or ceiling mounted, the 116DEXSTC-FJ meets or exceeds the requirements of UL 1971 Signaling Appliance for the Hearing Impaired. Stanchion mount models are UL 1638 Listed for private mode emergency signaling. All models are CSFM Listed.

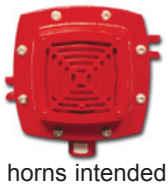
116DEXSTC-FJ	Explosionproof Strobe, Diode Polarized				Data Sheet I#1592-00 ☐
☐ Wall Mount Elbow	☐ Ceiling/wall Module	☐ Pendant Module	☐ Stanchion Module		Data Sheet I#1592-00 ☐

Hazardous Location Bells

- Class I groups B, C and D locations
- Class II groups E, F and G locations
- Class III hazardous locations, for Divisions 1 and 2

430D series of hazardous location bells are diode-polarized, heavy duty fire bells for use in life safety applications where a diode supervised signal is required. They can be mounted to any solid surface using two 3/8 inch (10 mm) bolts and the supplied mounting brackets or to a rigid conduit. The integral explosion-proof housing is mechanically terminated to accept a standard 3/4 inch -14 National Pipe Taper (NPT) nipple.

☐ 439DEX-6AW (6”)	☐ 439DEX-8AW (8”)	☐ 439DEX-10AW (10”)	Bell – 24 Vdc	Catalog Sheet: I#1261 ☐
☐ 438DEX-6N5 (6")	☐ 438DEX-8N5 (8")	☐ 438DEX-10N5 (10")	Bell – 120 Vac	Catalog Sheet: I#1261 ☐



Hazardous Location Horns

- Class I groups B, C and D locations
- Class II groups E, F and G locations
- Class III hazardous locations, for Divisions 1 and 2

888D and 889D hazardous location horns are diode-polarized, heavy duty, high decibel vibrating horns intended for use in life safety systems in hazardous (classified) locations. These horns may be mounted to any solid surface using two bolts. Each unit is supplied with a sealing fitting for a 3/4 inch -14 National Pipe Taper (NPT) nipple, and wire leads for the electrical connection to the life safety system notification appliance circuit.

☐ 888D-N5 (120 Vac)	☐ 889D-AW (24 Vdc)	Horn – 120 Vac	Catalog Sheet: I#1260 ☐

Remote Booster Power Supply, p. 8.

SUBMIT

Door Holders

24 Vac 60 Hz
24 Vdc
120 Vac 60 Hz

Electromagnetic Door Holders

ADT electromagnetic door holders keep doors open until signaled by the fire alarm system, a heat detector, a smoke detector, or an electrical switch. Door holders should be installed wherever doors may be effectively used to confine smoke and fire, or where the release of a self-closing door from a remote location is required. Fail-safe operation is an inherent feature of these door holders. If power fails, doors are released automatically, but may be opened or closed manually at any time. All units are free of moving parts, are self-contained, and require no maintenance. Door holders have a holding force of approximately 15-25 Lbf (66-111N).

☐	☐1501-AQN5 (Single Door)	☐1502-AQN5 (Double Door)	Floor Mounted	Catalog Sheet: I#1267
☐	☐1504-AQN5 (Long Catch Plate)	☐1505-AQN5 (Short Catch Plate)	Flush Wall Mounted	Catalog Sheet: I#1267
☐	☐1508-AQN5 (Surface)	☐1505-AQN9 (Completely flush)	Wall Mounted	Catalog Sheet: I#1267
☐	☐1500-1 (1.5” Extension)	☐1500-2 (2.5” Extension)	Catch Plate	Catalog Sheet: I#1267
☐	☐1500-7 (5.25 to 7.5” Extension)	☐1500-12 (7.5 to 12” Extension)	Catch Plate	Catalog Sheet: I#1267
☐	☐CS2595-5 (short)	☐CS2598-5 (long)	Replacement Armature	Catalog Sheet: I#1267

Relays

Four-Voltage SPDT/DPDT Control Relays

MR Series multi-voltage control relays are ideal for applications where local contacts are required for system status, remote contacts, or for control of electrical loads and general purpose switching. They are suitable for use with HVAC temperature control, fire alarm, security, energy management, and lighting control systems. Relays provide 10-Amp contacts, which may be operated by one of four input control voltages. Each relay position contains a red LED that indicates the relay coil is energized. Relays may be snapped apart from a standard four-module assembly and used independently.

☐	☐MR-101/T (with mounting hardware)	☐MR-101/C (in metal enclosure)	Single SPDT relay	Catalog Sheet: I#1270
☐	☐MR-104/T (with mounting hardware)	☐MR-104/C (in metal enclosure)	4-position SPDT relay	Catalog Sheet: I#1270
☐	☐MR-201/T (with mounting hardware)	☐MR-201/C (in metal enclosure)	Single DPDT relay	Catalog Sheet: I#1270
☐	☐MR-204/T (with mounting hardware)	☐MR-204/C (in metal enclosure)	4-position DPDT relay	Catalog Sheet: I#1270

Heavy Duty DPDT Power Relays

MR-199 heavy duty power relays are designed for control applications where 30-Amp DPDT contacts are required. Two models are available: a 115Vac coil and a 24Vdc coil, each of which may be mounted in a rugged steel enclosure.

☐	☐MR-199X-13 (relay only)	☐MR-199X-13/C (in metal enclosure)	Power Relay — 24 VDC	Catalog Sheet: I#1271
☐	☐MR-199AX-14 (relay only)	☐MR-199AX-14/C (in metal enclosure)	Power Relay — 120 VDC	Catalog Sheet: I#1271

SUBMIT

SPDT Relays

Single-pull/double-throw relays are ideal for applications where local or remote contacts are required for control of electrical loads. They are suitable for use with HVAC, temperature control, fire alarm, security, energy management, and lighting control systems. Each relay position contains a high-intensity LED which, when illuminated, indicates the relay coil is energized. Individual relay circuits may be snapped apart from standard four- or eight-position modules, and are also available in a single-circuit configuration. The common power to each relay position is bussed on the printed wiring board, which permits power to be connected only once per multi-position module.

Single-Voltage Manual Override Relays

MR-600 series relays provide SPDT, 10-Amp contacts with manual override capability by means of an ON-AUTO-OFF switch. The relay requires a 24Vac or 24Vdc power source supplied by the controlling system. With the switch in the ON position the power relay is energized. With the switch in the AUTO position the relay is allowed to operate as signaled by the controlling system. With the switch in the OFF position the relay cannot be energized.

☐MR-601/T (with mounting track)	☐MR-601/S (with mounting spacers)	Single SPDT relay	Catalog Sheet: I#1272	☐
☐MR-604/T (with mounting track)	☐MR-604/S (with mounting spacers)	4-position SPDT relay	Catalog Sheet: I#1272	☐
☐MR-608/T (with mounting track)	☐MR-608/S (with mounting spacers)	8-position SPDT relay	Catalog Sheet: I#1272	☐

Three-Voltage Control Relays

MR-800 Series relays provide SPDT 10-Amp contacts that may be operated by one of three input control voltages: 24Vdc, 24Vac or 115Vac.

☐MR-801/T (with mounting track)	☐MR-801/S (with mounting spacers)	Single SPDT relay	Catalog Sheet: I#1274	☐
☐MR-804/T (with mounting track)	☐MR-804/S (with mounting spacers)	4-position SPDT relay	Catalog Sheet: I#1274	☐
☐MR-808/T (with mounting track)	☐MR-808/S (with mounting spacers)	8-position SPDT relay	Catalog Sheet: I#1274	☐

Four-Voltage Control Relays

MR-700 Series relays provide SPDT 10-Amp contacts that may be operated by one of four input control voltages: 12Vdc, 12Vac, 24Vdc, or 24Vac.

☐MR-701/T (with mounting track)	☐MR-701/S (with mounting spacers)	Single SPDT relay	Catalog Sheet: I#1273	☐
☐MR-704/T (with mounting track)	☐MR-704/S (with mounting spacers)	4-position SPDT relay	Catalog Sheet: I#1273	☐
☐MR-708/T (with mounting track)	☐MR-708/S (with mounting spacers)	8-position SPDT relay	Catalog Sheet: I#1273	☐

Three-Voltage Encapsulated Control Relays

PAM-1 relays provide 10-Amp Form C contacts. The relay may be energized by one of three input voltages: 24Vac, 24Vdc, or 115Vac. The PAM-1 may be mounted with double-sided adhesive tape, a self-tapping screw, or loosely placed in a backbox.

PAM-1	Encapsulated SPDT relay	Catalog Sheet: I#1269	☐

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